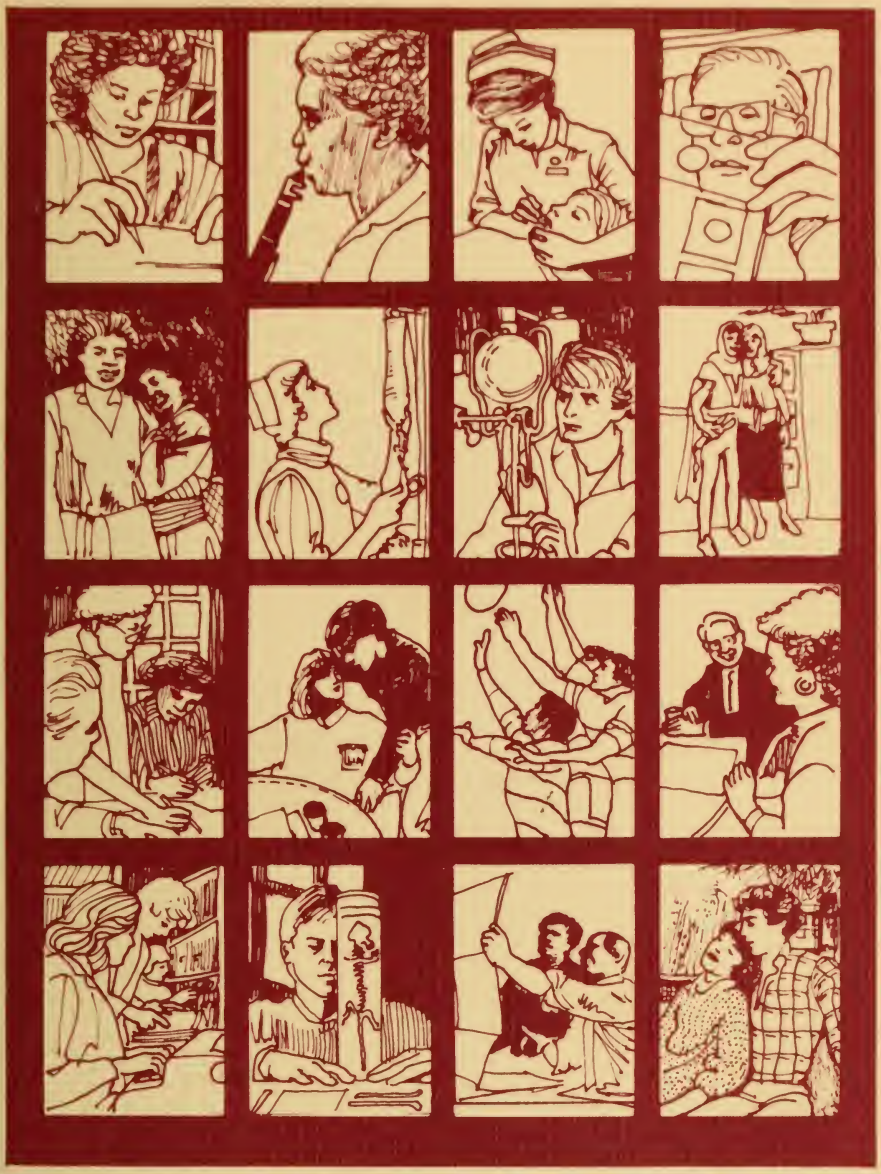
1985

Armstrong State College 1985-1986 Catalog

Armstrong State College



Armstrong State College

1985-86 Catalog
Savannah, Georgia

HIGH SCHOOL
PREPARATION FOR COLLEGE

Based upon a careful review of the high school curriculum and public colle admissions requirements, the State Board of Education and the Board of Rege recommended the following courses as being **essential** for success in college:

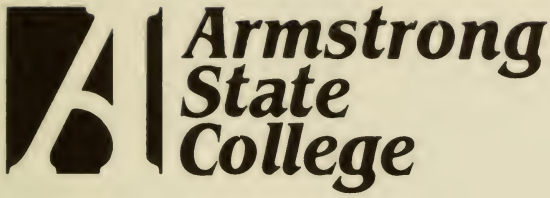
Course (Units)	**Instructional Emphasis**
English (4)	-Grammar and usage -Literature (American & World) -Advanced composition skills
Science (3)	-Physical Science -At least two laboratory courses from Biology, Chemistry, or Physics
Mathematics (3)	-Two courses in Algebra and one in Geometry
Social Science (3)	-American History -World History -Economics and Government
Foreign Language (2)	-Skill-building courses emphasizing speaking, listening, reading, and writing.

Additional courses selected from the following are also strongly recommende

Trigonometry
An additional laboratory course in science
A third course in a foreign language or study in a second foreign language
Fine Arts (art, dance, drama, music)
Computer Technology
Physical and Health Education
Typing

For information on specific prerequisites related to given majors, students shou consult college catalogues and their high school counselors.

A Senior College in the
University System of Georgia



11935 ABERCORN STREET
SAVANNAH, GEORGIA
31419-1997

1985-1986

Accredited by the
Southern Association of Colleges and Schools
Commission on Colleges

— Reaffirmed December, 1982 —

From the President

This Armstrong State College catalog contains policies, regulations, academic programs, and general information about our college. While this is useful information, it will not provide you a feeling for the exciting Armstrong educational experience. Only living it will.

Acting President

Contents

Special Notice

The statements set forth in this Catalog are for information purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of the Catalog will ordinarily be applied as stated, Armstrong State College reserves the right to change any provision listed in this Catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available in the Offices of the Registrar, the Vice President of Student Affairs, and the academic deans. It is especially important that students note that it is their responsiblity to keep themselves apprised of current graduation requirements for their particular degree program.

Armstrong State College is an affirmative action/equal opportunity educational institution and does not discriminate on the basis of sex, race, age, creed, or national origin in employment, admissions, or activities. The College does not discriminate on the basis of physical handicap.

Institutions of the University System of Georgia

h — On-Campus Student Housing Facilities
Degrees Awarded: A — Associate; B — Baccalaureate; J — Juris Doctor;
M — Masters; S — Specialist in Education; D — Doctorate
cD — Doctorate offered in cooperation with a University System university, with degree awarded by the university

Universities

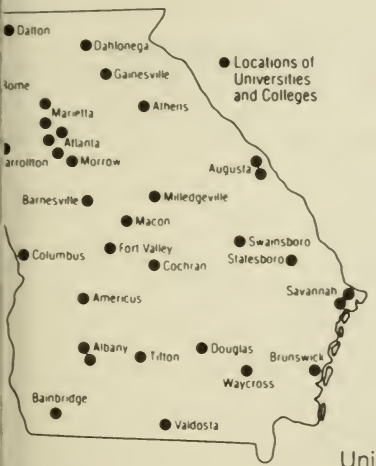
Athens 30602
University of Georgia — h; B,J,M,S,D
Atlanta 30332
Georgia Institute of Technology — h; B,M,D
Atlanta 30303
Georgia State University — A,B,J,M,S,D
Augusta 30912
Medical College of Georgia — h; A,B,M,D

Senior Colleges

Albany 31705
Albany State College — h; B,M
Americus 31709
Georgia Southwestern College — h; A,B,M,S
Augusta 30910
Augusta College — A,B,M,S
Carrollton 30118
West Georgia College — h; A,B,M,S
Columbus 31993
Columbus College — A,B,M,S
Dahlonega 30597
North Georgia College — h; A,B,M
Fort Valley 31030
Fort Valley State College — h; A,B,M
Marietta 30061
Kennesaw College — A,B
Marietta 30060
Southern Technical Institute — h; A,B,M
Milledgeville 31061
Georgia College — h; A,B,M,S
Savannah 31419
Armstrong State College — A,B,M
Savannah 31404
Savannah State College — h; A,B,M
Statesboro 30460
Georgia Southern College — h; A,B,M,S,cD
Valdosta 31698
Valdosta State College — h; A,B,M,S,cD

Junior Colleges

Albany 31707
Albany Junior College — A
Atlanta 30310
Atlanta Junior College — A
Bainbridge 31717
Bainbridge Junior College — A
Barnesville 30204
Gordon Junior College — h; A
Brunswick 31523
Brunswick Junior College — A
Cochran 31014
Middle Georgia College — h; A
Dalton 30720
Dalton Junior College — A
Douglas 31533
South Georgia College — h; A
Gainesville 30503
Gainesville Junior College — A
Macon 31297
Macon Junior College — A
Morrow 30260
Clayton Junior College — A
Rome 30163
Floyd Junior College — A
Swainsboro 30401
Emanuel County Junior College — A
Tifton 31793
Abraham Baldwin Agri. College — h; A
Waycross 31501
Waycross Junior College — A



University System of Georgia
244 Washington Street, S.W.
Atlanta, Georgia 30334

Academic Calendar

	Fall, 1985 (11 weeks)	Winter, 1986 (11 weeks)	Spring, 1986 (11 weeks)	Summer, 1986 (7 weeks)	(9 weeks)
Registration	September 18	January 2	March 27	June 18	June 18
First Day of Classes	September 19	January 3	March 28	June 19	June 19
Mid-Term Examinations	October 23	February 7	May 1	July 14	July 21
Last Day to Withdraw	October 23	February 7	May 1	July 14	July 21
Early Registration and Advisement	Oct. 28-Nov. 8	Feb. 1-21	Apr. 28-May 9	July 14-25	July 14-25
Last Day of Classes	November 27	March 14	June 5	August 7	August 21
Reading Day	December 2	March 17	June 6	August 11	August 25
Final Examinations Begin	December 3	March 18	June 9	August 12	August 26
Final Examinations End	December 5	March 20	June 11	August 13	August 27
Graduation	December 5		June 11		
Holiday	Nov. 28, 29	Jan. 20		July 4	July 4
Institutional Scholastic Aptitude Test (SAT)	Aug. 31	Nov. 23	March 8		
Basic Skills Examination (BSE)	Sept. 6, 11, 16	December 20	March 18	June 9, 23, 30	July 7,14,21, 28, Aug 4,11
Diagnositc Tests (Eng. & Math)	Sept. 6, 11, 16 October 15	Dec. 3, 20 January 28	March 18 April 15	June 9,23, 30	July 7,14,21 28, Aug.4,11
College Level Examination Program (CLEP)	October 16	January 15	April 16		
Regents' Test Application Deadline	October 8	January 15, 21	April 15		
Regents' Test Administration	October 29	February 11	May 6		
General Orientation Sessions	September 17	January 2	March 25		
CHAOS Orientation Sessions	July 12, 19, 26 August 2, 9				

Board of Regents

John, Jr. ..... Hawkinsville
Bishop, Julius ..... Athens
Divine, William ..... Albany
Dodd, Marie W. ..... Atlanta
Frier, Thomas ..... Douglas
Gignilliat, Arthur ..... Savannah
Greene, Joseph ..... Augusta
Hill, Jesse, Jr. ..... Atlanta
McMillan, Elridge ..... Atlanta
Rhodes, Edgar ..... Bremen
Robinson, John, III ..... Americus
Skandalakis, John ..... Atlanta
Smith, Sidney ..... Gainesville
Summer, Lloyd, Jr., ... Rome
Ward, Jackie ..... Atlanta

College Commission

Victor, Irving ..... Chairman
Beall, Y.A., Jr.
Bell, Joseph
Kole, Kay
Ranitz, John, Jr.
Stegall, John
Bargeron, Saxon
Brooks, Charles
Etheridge, Ronald
Rousakis, John
Young, David A.
Burnett, Robert
Groach, Maureen ..... Secretary and Treasurer

Staff of the Board

Propst, H. Dean ..... Chancellor
Neal, Henry ..... Executive Secretary
Wamsley, Jacob ..... Vice Chancellor-Fiscal Affairs and Treasurer
Branch, Frederick ..... Vice Chancellor-Facilities
Jordan, Howard, Jr. ..... Vice Chancellor-Services
McDonald, Thomas ..... Vice Chancellor-Student Services
O'Rear, Harry ..... Vice Chancellor-Health Affairs
Pounds, Haskin ..... Vice Chancellor-Research and Planning
Cleere, Ray W. ..... Vice Chancellor-Academic Affairs
Cannon, Robert ..... Assistant Vice Chancellor-Affirmative Action
Carmon, James ..... Assistant Vice Chancellor-Computing Systems
Cheek, Wanda K. ..... Assistant Vice Chancellor-Planning
Funk, Gordon M. ..... Assistant Vice Chancellor-Fiscal Affairs
Hickman, Mary Ann ..... Assistant Vice Chancellor-Academic Affairs
Jenkins, Guy .... Assistant Vice Chancellor-Facilities
Joiner, Robert ..... Assistant Vice Chancellor-Communications
Mann, Thomas E. ..... Assistant Vice Chancellor-Facilities
Mosshart, Roger ..... Assistant Vice Chancellor-Fiscal Affairs
Schwarzmueller, E. Beth ..... Assistant Vice Chancellor-Research

Officers of Administration

Burnett, Robert ..... President
Butler, Frank ..... Vice President and Dean of Faculty
Buck, Joseph ..... Vice President of Student Affairs and Development
Stegall, John ... Vice President for Business and Finance
Adams, Joseph ..... Dean, School of Arts and Sciences
Anderson, Donald ..... Dean, College and Community Services
Nash, Charles ... Dean, School of Education
Norsworthy, Gary ... Dean, Coastal Georgia Center for Continuing Education
Repella, James ..... Dean, School of Health Professions
Urbanz, Ed ..... Director of Plant Operations
Groach, Maureen ..... Director of Finance
Harris, Alvis ..... Director of Student Activities
Struck, Ellen ..... Director of Personnel
Hunnicutt, George ..... Registrar
Miller, Thomas ..... Director of Admissions and Recruitment
Morrison, Margaret .... Director of Computer Services
Bryner, Renald ..... Director of Athletics
Winters, James .... Director of Financial Aid and Veterans Affairs
Benson, Lynn ..... Director of Counseling Services
Cox, Patrick ..... Counselor/Housing Coordinator
Martucci, Karen ... Dir.Career Development and Placement
Lee, Michele ..... Coordinator College Communications
Shaw, Ellen ..... Asst. Dir. Financial Aid and Veterans Affairs

History of the College

Armstrong State College was founded on May 27, 1935, as Armstrong Junior College, by the Mayor and Aldermen of the City of Savannah to meet a pressing need for a college in the community. The college was housed in the Armstrong Building, a gift to the city from the family of George F. Armstrong, and over the years built or acquired five additional buildings in the Forsyth Park and Monterey Square areas. The college, as Armstrong College of Savannah, became a two-year unit in the University System of Georgia on January 1, 1959, under the control of the Regents of the University System. In 1962, the Mills B. Lane Foundation purchased a new campus site of over 200 acres located on Abercorn Extension. The new campus, with eight new buildings, was occupied in December, 1965.

In 1964, the Regents conferred upon Armstrong the status of a four-year college, with the right to offer the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration. The college now offers more than twenty major programs leading to baccalaureate degrees, and, in addition, the two-year associate degree in a number of academic areas.

The academic community includes approximately 2,700 students and 165 full-time faculty members. Armstrong State College was fully accredited as a senior institution by the Southern Association of Colleges and Schools in December, 1968, with accreditation retroactive to January 1, 1968, and was last reaccredited in December 1982.

Purpose of the College

Armstrong State College is a multi-purpose institution offering degree programs in the health professions, human services, liberal arts and teacher education. Graduate programs are also available in selected academic areas. As a service to the community, it also provides a continuing education program for those who have nondegree objectives. The College strives to maintain the flexibility and adaptability which activated its growth and change of status in less than thirty-five years from a small city-supported junior college to a senior college in the University System of Georgia. Therefore, the College defines its present purpose in the following terms:

to provide a professional staff and modern facilities in an environment that promotes the free exchange of ideas;

to bring each student to a better realization of his own intellectual, emotional, and spiritual potential by providing academic programs in the humanities, natural sciences, and social sciences;

to develop the student's technical and analytical skills through programs leading to professional degrees in a number of areas, including Health Professions, Criminal Justice, and Teacher Education;

to offer opportunities for continuing education through symposia, conferences, institutes, and courses unrelated to degree programs;

to make available the full resources of the College through involvement in research projects, public service activities, and other programs sponsored by the community.

Accreditations

Armstrong State College has earned the following regional and special purpose accreditations:

Armstrong State College - by the Southern Association of Colleges and Schools for the period 1982-1992.

Associate Degree Nursing - by the National League for Nursing for the period 1977-1985.

Criminal Justice - by the Criminal Justice Accreditation Council for the period 1981-1991.

Dental Hygiene - by the Commission on Accreditation of Dental and Dental Auxiliary Educational Programs for the period 1979-1984.

Health Information Management - by the Committee on Allied Health Education and Accreditation for the period 1981-1984.

Music - by the National Association of Schools of Music for the period 1984-1990.

Respiratory Therapy Department - by the Committee on Allied Health Education and Accreditation for the period 1983-1988.

Teacher Education Programs - by the National Council for the Accreditation of Teacher Education for the period 1982-1989.

Two-Year Degree Programs

The following two-year degrees are offered as preparation for higher degrees in the liberal

arts and professions or as terminal professional degrees:

Associate in Arts
Associate in Science in Criminal Justice
Associate in Science in Dental Hygiene
Associate in Science in Health Information Management
Associate in Science in Nursing
Associate in Science in Radiologic Technologies
Associate in Science in Respiratory Therapy

Four-Year Degree Programs

Bachelor of Arts in the fields of art, drama-speech, English, history, music, political science, and psychology.

Bachelor of General Studies.

Bachelor of Health Science.

Bachelor of Music Education.

Bachelor of Science in the fields of biology, chemistry, computer science, criminal justice, and mathematical sciences.

Bachelor of Science in Education with majors in Early Elementary Education; Middle School Education; Health, Physical Education and Recreation; and Secondary Education in the teaching fields of Art Education, Biology Education, Business Education (with concentrations in bookkeeping and business management, comprehensive, or data processing: cooperative arrangement with Savannah State College), Chemistry Education, English Education, General Science Education, Industrial Arts Education (cooperative arrangement with Savannah State College), Social Science Education (with concentrations in history, political science, and behavioral science), and Trade and Industrial Education (cooperative arrangement with Savannah State College).

Bachelor of Science in Dental Hygiene Education.

Bachelor of Science in Medical Technology.

Bachelor of Science in Nursing.

The College is authorized to offer Teacher Education programs, preparing students for certification by the Georgia State Department of Education in the following areas: art, behavioral science, biology, business education, chemistry, early elementary education, English, general science, history, industrial arts, library media, mathematics, middle school education, music, physics, political science, social studies, trade and industrial education.

Pre-Professional Programs

Armstrong State College offers courses appropriate for the first two years of baccalaureate programs such as business, engineering, forestry, industrial management, pharmacy, physical therapy, physics, etc., not offered among its degree programs, and it offers the pre-professional study appropriate for dentistry, law, medicine, veterinary medicine, and other professional fields.

Dual-Degree Programs

Upon completion of the first three years of academic work at Armstrong, the student may enroll for two subsequent years at Georgia Institute of Technology, University of Florida or Auburn University. After completing the requirements of the two cooperating institutions, the student will be awarded a baccalaureate degree from Armstrong State College and a baccalaureate degree in one of a number of academic areas from the second school. For further information on this dual-degree program, the student should contact the Head of the Department of Chemistry and Physics, who is the local coordinator of the Dual-Degree program.

Coastal Georgia Center for Continuing Education

The Coastal Georgia Center for Continuing Education was established in 1979 to combine the resources of Armstrong State College's Community Services Division and Savannah State College's Extended Services Division. Utilizing a Downtown Center located at 428 Bull Street, the Center operates a unified continuing education program dedicated to serving the people of Savannah, Chatham County, the State of Georgia and, for some programs, persons beyond those boundaries.

A wide variety of programs is offered at Armstrong State College, Savannah State College, the Downtown Center and, when it is appropriate, at job sites, schools, community centers, and other locations in Savannah. Instructors are drawn from the faculties of both institutions, from qualified experts in the Savannah community, and from consultants throughout the region.

On the Armstrong campus, the major community services/continuing education com-

ponent of the college is the short-course/ conference program. This unit administers non-degree courses, conferences, and seminars designed for area residents who do not wish to participate in the regular credit classes offered by the college. These activities vary widely — some are related to professional development, others reflect personal interests, while others are recreational in nature. The Registrar maintains permanent records of persons participating in activities that meet certain criteria.

The Coastal Georgia Center cooperates with the University of Georgia Center for Continuing Education through service as a center at which examinations are proctored for students enrolled in independent study (correspondence) courses. A booklet describing these courses is available upon request. Examinations from other colleges and examinations by professional societies can also be proctored. Examination proctoring is by prior arrangement only.

Student Cooperative Program

A student enrolled at Savannah State College or at Armstrong State College as a full-time student has the privilege of taking one course with his Dean's approval at the other college without paying an additional fee. A student may obtain in the Office of the Registrar the proper form for permission to register for courses at Savannah State College.

ADMISSIONS

General Information

Application forms for admission to Armstrong State College are provided by the Office of Admissions upon request. Applications cannot be considered until all required forms are completed and returned to the Office of Admissions.

Applicants must be at least sixteen years old on or before registration date and must give evidence of good moral character, promise of growth and development, seriousness of purpose, and a sense of social responsibility. Armstrong State College reserves the right to examine and appraise the character, the personality, and the physical fitness of applicants by the use of tests and to require additional biographical data and an interview before applicants are accepted or rejected. If an interview is required, the applicants will be notified.

Armstrong State College reserves the right to refuse to accept any or all of the credits from any high school or other institution, notwithstanding its accredited status, when the College determines through investigation or otherwise that the quality of instruction at such high school or institution is, for any reason, deficient or unsatisfactory. The judgment of the College on this question shall be final.

On the basis of achievement as reflected by high school or college grades and academic potential as shown by scores on the Scholastic Aptitude Test, an evaluation of each applicant's readiness to undertake college work will be made. The Admissions Officer may refer any application to the Admissions Committee of the College for study and advice.

The decision as to whether applicants shall be accepted or rejected will be made by the Admissions Officer in accordance with admissions policies and subject to the applicants' right of appeal as provided in the policies of the Board of Regents of the University System. The Admissions Officer shall, as promptly as practicable, inform applicants of the action taken upon their application.

The College reserves the right to reject an applicant who is not a resident of the State of Georgia. All students enrolled at Armstrong State College are required to affirm that they will abide by the provisions of the Honor Code.

Information Required of Freshmen Applicants

All freshmen applicants must submit the following:

1. a. Certificate of graduation from an accredited high school. A transcript of the high school record must be submitted by the high school directly to the College.

   OR

   b. Evidence of successful completion of the General Education Development Test (GED), with no scores less than 45. A score report form must be submitted directly to the college from the GED testing center where the student took the test or by DANTES, 2318 South Park Street, Madison, Wisconsin 53713 (if the student took the test through the United

States Armed Forces Institute while in military service).

2. Satisfactory scores on the Scholastic Aptitude Test of the College Entrance Examination Board. Specific scores required are listed under the categories of admission. Official results of the SAT must be filed with the Office of Admissions by the final date for the submission of an application for the Quarter in which a student wishes to enroll. Students wishing to make application to take the SAT may secure application forms from their secondary school principal or counselor or from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540.

An Institutional Scholastic Aptitude Test (ISAT) is given quarterly through the Office of Counseling and Placement at the College. ISAT scores can be used only for admission to Armstrong State College and registration forms are available through the Office of Admissions.

Regular Admission

Applicants who meet *all three* of the following requirements will be granted *regular* admission to the College:

I. A total score on the Scholastic Aptitude Test of at least 750 (combined verbal and mathematics sections)
2. A score of not less than 330 on the verbal section of the Scholastic Aptitude Test
3. A score of not less than 330 on the mathematics section of the Scholastic Aptitude Test.

Conditional Admission

An applicant who qualifies for admission to the College but who does not qualify for regular admission will be granted conditional admission. A student is conditionally admitted to the College if the SAT score total is less than 750 or if any part of the SAT score (verbal or math) is less than 330.

All conditionally admitted students must take the Basic Skills Examination (BSE) in order to qualify for regular admission. This examination should be taken before the student's first registration at the College. If a conditionally admitted student fails to take the BSE before registering, the choice of courses (until the test is taken) will be limited by the student's SAT scores as follows:

If the verbal SAT score is less than 330—must take English 098 and Reading 098
If the verbal SAT score is 330-440—may take English 099
If the verbal SAT score is 450-490—may take English 100
If the verbal SAT score is 500 and up—may take English 101
If the math SAT score is less than 410—eligible for Math 098 only

Any other courses taken prior to taking and passing the BSE must be approved by the Head of the Department of Developmental Studies, or by the Counselor of that department.

A student in the Developmental Studies Program must have a schedule of classes approved by the Head of the Department of Developmental Studies or the Counselor each time the student registers or preregisters. The Head of the Department may refuse to allow a student in the Developmental Studies Program to enroll in any course for which the student lacks a prerequisite or for which the student's academic preparation appears inadequate.

Once a student is conditionally admitted, regular admission status may be obtained only through the following:

1. Passing all parts of the Basic Skills Examination on the first attempt.
2. If any part of the BSE is not passed on the first attempt the student will be required to enroll in the appropriate remedial course. Upon successful completion of all required Developmental Studies courses, the student will be granted regular admission.

A student in the Developmental Studies Program will not be allowed to continue as a student at the College if the student receives three grades other than P for a course required in the Developmental Studies Program. Grades other than P include U, I, W, WU, and WF. Copies of the policies of the Developmental Studies Program may be obtained from the Developmental Studies Office.

Provisional Admission

A student who has been a graduate from an accredited high school for a period of eight years or more may be granted provisional admission to the college without submitting scores on the Scholastic Aptitude Test. The student will be required to take the institutional diagnostic tests for course placement. A stu-

dent admitted under the Provisional Admission Category must complete 30 hours of college credit with a minimum 2.0 grade point average in order to be granted regular admission to the college.

Advanced Placement and Credit by Examination

Armstrong State College gives advanced placement, or in some cases college credit, for college-level high school courses, on the basis of the student's grade on the College Board Advanced Placement Examination or the Admissions Testing Program achievement tests and approval by the appropriate department head at Armstrong State College.

College credit may be granted for satisfactory scores on selected tests of the College-Level Examination Program (CLEP), for satisfactory completion of appropriate courses and tests offered through the United States Armed Forces Institute (USAFI), and for military service schools and experience as recommended by the Commission on Accreditation of Service Experiences of the American Council on Education. Credit by examination and correspondence or extension study may not exceed one-fourth of the work counted toward a degree.

Specifically, students with a strong academic background may, through certain examinations, demonstrate competence in: ANTHROPOLOGY 201; ART 200; BIOLOGY 101, 102; ENGLISH 101, 102; FOREIGN LANGUAGE 101, 102, 103; HISTORY 114, 115, 251, 252; MATHEMATICS 101, 103, 206, 207; MUSIC 200; NATURAL SCIENCE without laboratory; POLITICAL SCIENCE 113; SOCIOLOGY 201. For information concerning the examinations which apply to the specific areas, please make inquiry to the Office of Admissions, the Office of the Registrar, the Office of Counseling and Placement, or the head of the appropriate academic department.

Requirements of Transfer

1. Transfer applicants will follow the same procedures as freshmen applicants except that transfer applicants who will have achieved sophomore standing at the time of their entrance will not be required to submit their high school records. Such records may be required by the Office of Admissions but normally the transcripts of previous college records will suffice in place of the high school record. Transfer applicants must ask the Registrar of *each* college they have previously attended to mail an official transcript of their records to the Office of Admissions at Armstrong State College, regardless of the transferability of the credits.
2. Transfer applicants who will enter with less than 36 quarter hours completed must meet entrance requirements of both freshmen and transfer applicants and will be required to submit their high school records as well as transcripts of college records.
3. Transfer applicants will not be eligible for admission to Armstrong State College unless they are eligible to return to the last college attended on the date they expect to enter Armstrong. Students who are on suspension from another college because of poor scholarship or for disciplinary reasons will not be eligible for admission.
4. Transfer applicants will be considered for admission to Armstrong State College, if, on *all* work attempted at other institutions, their academic performance as shown by their grade-point-average is equivalent to the minimum standard required by Armstrong State College students by comparable standing. (See chart under Academic Probation and Dismissal Policy in the "Academic Regulations" section of this Catalog.)
5. Credit will be given for transfer work in which students received a grade of "C" or above. Credit will also be given for transfer work in which the students received grades of "D", with the limitation that such credit will not exceed twenty-five percent of the total amount of credit accepted with grades of "C" or above. College credit will not be allowed for such courses as remedial English or remedial mathematics or courses basically of secondary school level.
6. Credits earned at an institution which is not a member of the appropriate regional accrediting agency can be accepted on a provisional basis only. Students transferring from an institution which is not a member of a regional accrediting agency must achieve a "C" average on their first fifteen quarter hours of work at Armstrong in order to be eligible to continue. In certain areas they may be required to validate credits by examination. In computing cumulative grade

averages, only the work attempted at Armstrong will be considered.

7. The amount of credit that Armstrong will allow for work done in another institution within a given period of time may not exceed the normal amount of credit that could have been earned at Armstrong during that time. A maximum of 100 quarter hours may be transferred from a junior college. At least half of the courses in the major field must be taken at Armstrong.
8. Not more than one-fourth of the work counted toward a degree may be taken through correspondence extension courses or examination. No correspondence courses may be used to meet requirements in the major field or the related field for the bachelor's degree. No correspondence course may be taken while enrolled at Armstrong State College without prior approval of the Vice President and the head of the department in which the student is majoring. Correspondence credit will not be accepted for courses in English composition or foreign language.
9. If the Core Curriculum requirements in Area I (Humanities), Area II (Sciences), and/or Area III (Social Sciences) have been completed in a University System of Georgia institution, each completed area will be accepted as having met the respective area requirement at Armstrong State College.

English Composition Placement of Transfer Students

Transfer students who have not completed the required English composition courses prescribed by Armstrong degree programs will be required to take an English diagnostic test to place the students in the appropriate English course. The exceptions to this requirement are those students with an SAT verbal of 500 or above or a TSWE score of 45 or above.

The transferred English composition credits will show the number and title of the sending institution so that the composition courses taken at Armstrong will not necessarily be shown as repeats. These transferred courses may then be used as elective credits to complete degree requirements.

Readmission

Students who have not been enrolled at Armstrong during the current academic year (the academic year begins with the Fall Quarter) must apply for readmission on a form provided by the Office of The Registrar. Former students who have not attended another college since leaving Armstrong may be readmitted, provided they are not on suspension at the time they wish to reenter. Former students who have attended another college since leaving Armstrong must meet requirements as listed in the bulletin in effect at the time of return.

Transient Students Entering Armstrong

Transient status means that students are admitted only for a specified period of time, normally for one quarter. Applicants for transient status must file a regular application form and submit a statement from their Dean or Registrar that they are in good standing and have permission to take specific courses at Armstrong to be transferred to their own institution when satisfactorily completed. Since transient students are not admitted as regular students, transcripts of college work completed elsewhere are not usually required of such applicants. Transient students who wish to remain at Armstrong longer than one quarter must submit additional statements from their Dean of Registrar or must meet all requirements for regular admission as transfer students.

Armstrong Students Transient Elsewhere

Armstrong students who wish to take course work at another college with the intent of applying the courses to their academic record at Armstrong may do so in accordance with regulations for transient status to another college. The student must meet the requirements stipulated by the other college, and in order to apply the credits toward his or her academic record at Armstrong, must meet the academic regulations of Armstrong. Consult with the Registrar's Office for details.

Accelerated Program for High School Students

High school students who have completed the eleventh grade, who have met the criteria for admission to the program and who maintain its standards will be permitted to enroll for college credit in at least one course but not more than two courses each quarter while they complete the senior year of high school. Upon graduation from high school, these students will be admitted as regular students to the College.

Through this program, students may complete over two-thirds of the freshman year of college before beginning a regular college career. Students accepted in the program may choose any freshman course for which they meet all the prerequisites, with permission of their high school principal or counselor and college advisor.

Students forfeit the privilege of this program if in any quarter a grade in a college course is below C or the high school average in academic courses is below B.

The College will consider students for this program only upon written recommendation of high school principals or counselors. In the view of the College, it is only these individuals who can judge the circumstances that may make the program valuable and practicable for any student.

To be admitted to the program students must satisfy all of the following criteria:

1. written recommendation by the principal or counselor of the high school;
2. completion of the eleventh grade in an accredited high school;
3. a combined verbal and mathematics SAT score of 1,000;
4. a minimum grade-point-average of 3.0 in high school work.

Early Admission and Joint Enrollment Programs

Armstrong State College offers an early admission program for those students who have completed the eleventh grade in high school and who have demonstrated outstanding academic potential. The criteria for admission to this program are the same as those listed for the Accelerated Program.

Additionally, the college cooperates with the Chatham County School System in the offering of a joint enrollment program which is an early admission program allowing students to enroll full time at the College while remaining on the rolls of a local high school. After successfully meeting all established criteria for the early admission program, students will be awarded high school diplomas at the end of their freshman year in college. For further information on this program prospective applicants should consult their high school counselors and request information from the Office of Admissions.

Foreign Students

It is recommended that foreign students begin their attendance at the college in the Fall Quarter. The college also recommends that foreign students attend an ELS language center prior to enrollment. (Applications for ELS are available from the Admissions Coordinator, ELS Language Center, 3331 Ocean Park Blvd. Suite 201, Santa Monica, California 90405.)

Students from a country other than the United States who are interested in attending Armstrong must meet the following requirements before application is made:

1. Meet the requirements of freshman applicants.
2. Have an official transcript of academic records mailed to the Office of Admissions at Armstrong with an official translation.
3. Take the SAT of the College Entrance Examination Board and ask that the results be sent to Armstrong.
4. Take the Test of English as a Foreign Language (TOEFL) and score a minimum of 500 for consideration for admission to the college.
5. Submit a statement of financial resources prior to attendance.
6. Show proof of adequate health and life insurance.

If applicants meet the academic requirements for admission, they will be sent an application form. After it has been returned and approved, the applicants will be sent an I-20 Form (I-20A and I-20B), student visa. Upon arrival, they will be tested in English composition for class placement.

Admission of Veterans

After having been accepted at Armstrong

State College and upon receipt of Certification of Eligibility and Entitlement from the Veterans Administration, veterans may attend under Public Law 358 (Veterans Readjustment Benefit Act of 1966), Public Law 815 (disabled), Public Law 894 (disabled), Public Law 634 (war orphans), or Public Law 631 (children of permanently disabled veterans). Students under Public Laws 358, 361, 634 should be prepared to pay tuition and fees at the time of registration.

Vocational Rehabilitation Applicants

Those applicants sponsored by Vocational Rehabilitation or other community agencies must apply at least six weeks before the beginning of any quarter to insure proper processing of applications.

Requirements for Admission to Fine Arts Programs

The college-level study of art and music requires considerable background as well as a basic proficiency level. Those students who wish to major in art are expected to show the faculty a portfolio of previous work in at least one medium. In music, placement examinations are required of all entering students in music theory and applied music.

Requirements and Procedures for Admission to Health Programs

Health Insurance

Because of contractural requirements, **Health Insurance is required** of students in Associate Degree Nursing, Baccalaureate Degree Nursing, Health Information Management, Medical Technology, Radiologic Technologies and Respiratory Therapy. **Malpractice/ Liability insurance is required** of students in Associate Degree Nursing, Baccalaureate Degree Nursing, Dental Hygiene, Health Information Management, Medical Technology, Radiologic Technologies and Respiratory Therapy.

Associate Degree Nursing

Admission to Armstrong State College does not in any way guarantee formal admission to the Associate Degree Nursing Program. It is important that the applicant for admission to this program file all papers required as early as possible in the academic year preceding the Fall Quarter in which the applicant wishes to enroll.

The Admissions Committee of the Department of Associate Degree Nursing will act only on completed applications. Admission decisions will normally be made in April. After admission to the Associate Degree Program, the student must pay a $50.00 non-refundable Health Programs Deposit to reserve a seat in the program. This deposit is applied to the student's first quarter matriculation fee. Students who qualify for admission but who are not admitted because of lack of space may reapply for the following year's class, repeating all application procedures. Students admitted for a given academic year must enter the program during that academic year or re-apply for admission for any subsequent year. Determination of admission to the program is a function of the faculty.

Transfer students must meet the minimum criteria for admission to the Department of Associate Degree Nursing as stated. Credit for nursing courses and science courses taken prior to application to the program must be approved by the Department of Associate Degree Nursing. Students wishing to be given transfer credits for nursing and science courses which are five years old or older may be required to validate the credits by taking departmental examinations or be required to repeat these courses for credit.

Applications for admission should be clearly marked "Associate Degree Nursing".

The Associate in Science degree program in Nursing is approved by the Georgia Board of Nursing and is fully accredited by the National League for Nursing (NLN).

Criteria for Admission

Admission to the Associate Degree Nursing is major on a space available basis and is limited to the best qualified students as determined by the Associate Degree Nursing faculty. Admission criteria include:

1. A minimum SAT verbal score of 350.
2. A minimum SAT mathematics score of 350.
3. A minimum SAT combined verbal/mathematics score of 750.
4. A minimum GPA of 2.5 in a high school curriculum which includes natural and social sciences.
5. A minimum adjusted college GPA of 2.0 for both all college coursework taken and for general requirements of the Associate Degree Nursing curriculum, with no more than one repeat grade from among the general requirement courses.
6. Completion of mathematics and English diagnostic tests prior to entry into the program.

Applicants who do not meet the preceding criteria may apply for admission after having met the following:

1. Completion of two courses selected from CHE 201, ZOO 208, ZOO 209 with grades of "C" or better; three courses selected from ENG 101, ENG 102, HIS 251 or HIS 252, POS 113, PSY 101 with a minimum 2.0 average. Completion of these five courses must be no later than the end of the Winter Quarter prior to the Fall Quarter for which admission is sought.
2. A minimum adjusted college GPA of 2.0 for both all college coursework taken and for general requirements of the Associate Degree Nursing curriculum, with no more than one repeat grade from among the general requirement courses.

Time Limit for Program Completion

Students must complete the Associate Degree Nursing Program within three consecutive academic years from the date of their initial admission to the program. Students who do not complete the program within this time limit must reapply for admission, meet current criteria for admission, and have their previous credits evaluated at the time of their subsequent admission. Students who are readmitted must meet course requirements in effect at the time of their readmission.

Readmission Procedures

1. The student must complete the readmission application for Armstrong State College.
2. The student will be required to meet admission and curriculum requirements in effect at the time of readmission.
3. The student's readmission will be based upon space available and recommendation by the Department of Associate Degree Nursing.
4. Students who have been dismissed are ineligible for readmission.

Baccalaureate Nursing Department

Applicants to the program must be regularly admitted to Armstrong State College prior to making application to the nursing major. Students must meet the admission requirements of the Department of Baccalaureate Nursing to be eligible for admission to the nursing major. Admission to the nursing major is the function of the Faculty. Only completed applications will be considered.

Students will be admitted to the nursing major during Winter Quarter, Sophomore year. When the class is filled, the Departmental Admissions Committee will close admissions. Students who are not admitted may reapply when they meet admission criteria.

Applicants may address the Head of the Department of Baccalaureate Nursing if they require additional information concerning admission procedures.

The Bachelor of Science degree program is approved by the Georgia Board of Nursing and is fully accredited by the National League for Nursing (NLN).

Criteria for Admission

Admission to the nursing major is on a space-available basis and is limited to the best qualified students as determined by the Department of Baccalaureate Nursing Admissions Committee. Admission criteria include:

1. Regular admission to Armstrong State College.
2. A minimum SAT verbal score of 350.
3. A minimum SAT mathematics score of 350.
4. A verbal/mathematics combined SAT of not less than 750. (SAT scores will not be required for those applicants with Associate, Bachelor's or Master's Degrees).
5. A grade of "C" or better in each science course.

6. An adjusted GPA of 2.5 in all prerequisite course work attempted.

Transfer Applicants and those with degrees in other fields must meet the criteria established for admission to the nursing major. Transfer credit will be awarded depending upon equivalency of courses. These decisions will be determined by the Nursing Faculty who will use actual course outlines, descriptions, etc., supplied by the student.

Registered Nurse applicants must meet the criteria established for admission to the nursing major and must also submit proof of licensure.

Time Limit For Program Completion

Students must complete the Baccalaureate Nursing Program within four consecutive years from the date of their initial admission to the nursing major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits evaluated. Students who are granted readmission must meet course requirements in effect at the time of readmission.

Readmission Procedures

1. The student must complete the readmission application for Armstrong State College and the nursing major.
2. The student will be required to meet admission and curriculum requirements in effect at the time of readmission.
3. The student's readmission will be based upon space available and recommendation by the Admissions Committee of the Department of Baccalaureate Nursing.
4. Students who have been dismissed are ineligible for readmission.

Associate Degree Dental Hygiene

Admission to Armstrong State College does not in any way guarantee admission to the Associate Degree Program in Dental Hygiene. Applicants must first be accepted for admission to the College with regular admission status; they then must meet the requirements for admission to the Associate Degree Program in Dental Hygiene before being accepted as students in that program.

Admission to the program is limited in each class. Students matriculate in the Fall Quarter of each year. Applications for admission should be completed as soon as possible for the Fall Quarter and must include a transcript of all academic work.

The major part of the applicant's high school work should be in the college preparatory area. Because of the heavy emphasis on science in the dental hygiene curriculum, it is important that the applicant have a strong foundation in biology and chemistry.

Applicants who are on academic probation or suspension from another college will not be considered for admission to the program. Unless specifically approved by the Head of the department, credit will not be accepted for courses taken in another school of dental hygiene.

Applications for admission should be clearly marked "For Dental Hygiene Only"

Applicants may contact the Head of the Department of Dental Hygiene if they require additional information concerning admission procedures.

After admission to the Dental Hygiene Program, the student must pay a $50.00 nonrefundable Health Programs Deposit to reserve a seat in the program. This deposit is applied to the student's first quarter matriculation fee.

Criteria for Admission

Admission to the Associate Degree Dental Hygiene major is on a space available basis and is limited to the best qualified students as determined by the Dental Hygiene Admissions Committee. Regular admission criteria include:

1. A 2.5 or better high school grade-point average.
2. An SAT score (composite verbal and mathematics) of 750 or above.
3. A grade-point-average of 2.0 on all previous college work, if applicable. Students transferring from another college must have this average to be considered for admission. The 2.0 average must be maintained to date of actual matriculation in the program.

The Dental Hygiene Admissions Committee will give special consideration to applicants who have completed one year of college work

and who have completed CHE 201 or ZOO 208 (or their equivalents) with a grade of "C" or better. Conditional admission criteria include:

1. Conditional Admissions status may be granted to an applicant when the applicant does not meet the regular admissions criteria.
2. An expressed interest in being admitted to the Associate in Science Dental Hygiene Program as evaluated by the Admissions Committee must be demonstated.

The conditionally admitted student must have a G.P.A. of 2.0 at the conclusion of the first year in the program.

After all credentials have been received, the applicant should request a personal interview with the Dental Hygiene Admissions Committee to discuss the application.

Readmission Procedures

Students who have been admitted to and have enrolled in the Associate Degree Program in Dental Hygiene, but who have either withdrawn or have been dropped from the program, may apply for readmission to the program only if they have a cumulative college GPA of 2.0 at the time they wish to reenter. The student's readmission will be based upon space available and recommendation by the Dental Hygiene Admissions Committee.

Baccalaureate Degree Dental Hygiene Education

Candidates for the program must be graduates of accredited associate degree dental hygiene programs and licensed as registered dental hygienists.

Students begin their course of sequenced dental hygiene courses in the Fall Quarter. Application for admission should be completed as soon as possible.

Transfer credits are accepted for courses other than the professional sequence. A minimum of 45 quarter hours must be earned at Armstrong State College for the Bachelor of Science Degree in Dental Hygiene Education to be awarded from this institution. The Office of the Registrar will evaluate all transfer credits.

Applications for admission should be clearly marked "For Dental Hygiene Only".

Applicants may contact the Head of the Department of Dental Hygiene at Armstrong State College if they require additional information concerning admission to the program.

Criteria for Admission

Admission requirements include:

1. One year of professional experience preferred. This may include any dental-related work experience.
2. A minimum 2.0 GPA on all previous college work. Students transferring from another college must have this average to be considered for admission. The 2.0 average must be maintained to date of actual matriculation in the program.

How to Apply

1. Complete all papers required for admission to Armstrong State College. Mark the application *For Dental Hygiene Only*. These forms are to be returned to the Office of Admissions.
2. Complete and return to the Department of Dental Hygiene, the Dental Hygiene Bachelor of Science Application Form and a recent photograph.
3. Submit National Board Scores to the Department of Dental Hygiene. Applicants should contact the Head of the Department of Dental Hygiene if they require additional information.

Associate Degree Health Information Management

It is suggested that students planning to apply to this program have a minimum of one course in each of the following: typing, secretarial or business courses, English, biological science, mathematics, and speech on the high school level.

New classes in the HIM program begin each Fall Quarter. Since a limited number of students is accepted, applicants should submit completed applications by June 1 of each year.

To meet contractual obligations with the clinical sites, the HIM program requires students to submit a completed health history form and evidence of health insurance cover-

age prior to participation in clinical practicums. This documentaion is submitted to the HIM Program Office.

Graduates are eligible to take the national accreditation examination to become "Accredited Record Technicians," (ART) through the American Medical Record Association.

Applications for admission should be clearly marked "Health Information Management." Applicants may address the Head of the Health Information Management program if they require additional information concerning admission procedures.

Criteria for Admission

Admission requirements include:

1. A total SAT score of 750, with minimum scores of 350 on the verbal section and 350 on the mathematics section.
2. A minimum GPA of 2.0 on any previous high school or college work.
3. A demonstration of typing proficiency of 40 wpm.
4. A satisfactory medical examination by a physician (Physical Exam forms can be obtained in the HIM office.)
5. A letter of recommendation mailed to the Program Director.
6. An interview with a member of the HIM faculty.

Time Limit for Program Completion

The HIM program is a seven quarter program. Students must complete the associate degree in HIM within four consecutive academic years from the date of their initial admission to the program. Students who do not complete the program within this time limit must reapply for admission, meet current criteria for admission, and have their previous credits evaluated at the time of their subsequent admission. Students who are readmitted must meet course requirements in effect at the time of their readmission.

Associate Degree Respiratory Therapy

Admission to Armstrong State College does not guarantee admission to the Respiratory Therapy Department. The department has a separate formal admissions process in addition to the admission process to Armstrong State College.

Students are only admitted to the program during the Fall Quarter. The application process begins during the Winter break preceding the desired admission date. Deadline for complete applications is June 1. Applications received after that date will be considered on a first come-first serve, space-available basis.

To meet contractual obligations with the clinical affiliates, the program requires students to submit a complete health history form and evidence of liability (malpractice) insurance prior to participation in clinical practicums.

Applications for admission should be clearly marked "For Respiratory Therapy Only." Applicants may address the Head of the Respiratory Therapy Department if they require additional information concerning admissions procedures.

Criteria for Admission

Admission requirements include:

1. Regular admission to Armstrong State College.
2. Good standing with college at the time of student selection.
3. A minimum SAT verbal score of 350.
4. A minimum SAT mathematics score of 350.
5. A minimum SAT combined verbal/mathematics score of 750.
6. A minimum GPA of 2.0 for all previous college and high school work.

Readmission to the Program

Students who have been admitted to and have enrolled in the Associate Program in Respiratory Therapy but who have either withdrawn or have been suspended from the program may apply for readmission provided they have an adjusted GPA of 2.0 at the time they wish to reenter.

A student who has been dismissed from the program for any reason will not be eligible for readmission.

Associate Degree Radiologic Technologies Program

Admission to Armstrong State College does not guarantee admission to the Radiologic Technologies Program. The Program has a separate formal admissions process in addition to the admission process to Armstrong State College.

Students are only admitted to the program during the Fall Quarter. The Application process begins during the Winter quarter preceding the desired admission date. Deadline for completion of the application process is June 1. Applications received after that date will be considered on a first come-first serve, space-available basis.

To meet contractual obligations with the clinical affiliates, the program requires students to submit a complete health history form, evidence of health insurance, and evidence of liability (malpractice) insurance prior to participation in clinical practicums.

Applications for admission should be clearly marked "For Radiologic Technologies Only." Applicants may address the Head of the Radiologic Technologies program if they require additional information concerning admissions procedures.

Criteria for Admission

The actual determination of admission of applicants to the program is a function of the Radiologic Technologies Program Admissions Committee. Admissions are competitive in nature and based on scholastic history, work experience, personal references, and a personal interview.

The following are specific criteria for admission:

1. A combined score of 750 on the verbal and mathematics sections of the SAT of the College Entrance Examination Board, with a score of not less than 350 on the verbal section or a score of not less than 350 on the mathematics section.
2. A minimum GPA of 2.5 in a high school curriculum.
3. A minimum GPA of 2.5 in all science and mathematics courses in the high school curriculum.
4. A minimum overall adjusted college GPA of 2.0, if applicable.
5. A minimum GPA of 2.0 in all mathematics and science courses at the college levels.

Applicants who do not meet the criteria for admissions outlined above may still apply for admission. Please contact the Program for information.

After admission to the Radiologic Technology Program, the student may pay a $50.00 non-refundable Health Programs Deposit to reserve a seat in the program. This deposit is applied to the student's first quarter matriculation fee.

Readmission to the Program

Students who have been admitted to and have enrolled in the Associate Degree Program in Radiologic Technologies, but who have either withdrawn or been dismissed without prejudice from the program, may apply for readmission to the program only if they have a cumulative college GPA of 2.0 at the time they wish to reenter. The student's readmission will be based upon space availability and recommendation by the Radiologic Technologies Admissions Committee.

Baccalaureate Degree Health Science

Criteria for Admission to Program

1. Regular admission to Armstrong State College
2. Completed Health Science Program application (Send to Health Science Program Office).
3. If applicant is currently a health practitioner, include:
   A. A copy of your health credential
   B. Confidential Appraisal Forms (2) Send to Health Science Program Office.

Criteria for Admission to Courses

1. Completion of 90 hours of appropriate coursework.
2. Cumulative GPA of 2.0 in all courses with not more than one science repeat.
3. Advanced Standing: All credit for previous coursework will be subject to faculty evaluation. Admission to and progression

through the program is a function of the faculty.

Baccalaureate Degree Medical Technology Program

General Information

The two year professional phase of the Medical Technology curriculum begins in the Fall quarter of each year with the junior year level MT courses. Students desiring acceptance to the Medical Technology Program should make application to the program during the early spring of the preceding academic year.

Due to the competition for the limited number of seats in the class, all students submitting a complete application before the announced deadline will be ranked. The applicants receiving the highest "Applicant Score" will be offered a seat in the class before those applicants with lower scores. Applications received after the announced deadline will be considered on an individual basis provided space is available.

Minimum Admission Requirements

1. SAT of at least 800 with 350 or more in Math and 350 or more in Verbal
2. Cumulative Grade Point Average of 2.2 or more.
3. Completion of 95 quarter hours which is to include an adequate number of required chemistry and biology courses such as to permit the student time to complete all non-professional course requirements prior to the senior year.
4. Science course (Chemistry and Biology) average of 2.25 or better with no more than one required science course with a grade of "D".
5. Satisfactory completion of Regents' Testing Program.

Other Requirements

Per NAACLS requirement, all applicants must have taken the organic or biochemistry course and the microbiology course within the past seven years. Updating coursework can be done by completion (a grade of "C" or better) of the appropriate course or by a challenge examination.

Currently enrolled Armstrong State College students must also meet the requirements for admission to the MT program and apply to the program.

Transfer students must be accepted to the college with "Regular Status" admission.

Certified associate degree medical laboratory technicians may receive transfer credit for junior level MT courses upon presentation of acceptable certification scores and/or transfer credit and satisfactory completion of written and/or practical examinations in the professional content areas.

An applicant with B.S. degree not desiring the B.S. in Medical Technology degree must meet the National Accrediting Agency for Clinical Laboratory Sciences academic prerequisites for Medical Technology. These students will be awarded a certificate upon completion of the professional coursework.

Foreign applicants must meet the requirements for admission to Armstrong State College as outlined in the college catalog.

Application Process

1. Complete all requirements for Application for Admission to Armstrong State College if not currently enrolled at ASC.
2. Complete an Application to Medical Technology Program form.
3. Have official transcripts sent to Program Director.
4. If certified, have scores sent to Program Director. (Ask Program Director for form letter.)
5. Applicants meeting the minimum admission requirements will be invited for an interview with at least two of the Admission Committee members, one of whom is the Program Director.
6. Request two references to complete Confidential Appraisal Form to be forwarded to Program Director.
7. All applicants will be informed by letter of their application status.

Applicant Ranking

As previously indicated, all applicants will be ranked to determine priority for admission to the class. An applicant score will be deter-

mined by evaluating the applicant in the following categories. The value of each category is as given:

Overall GPA	20%
Science GPA	35%
SAT	15%
Interview	20%
Reference	5%
Profile	5%

A detailed explanation of the calculation of the Applicant Score may be obtained from the Program Director.

ACADEMIC REGULATIONS

Academic Advisement

All students are required to participate in the advisement system at Armstrong State College. The Vice President and Dean of Faculty gives overall direction to the advisement program, with the appropriate department heads coordinating advisement activities within the various departments. Students who have selected a major or general field of study are advised by the appropriate department. Developmental Studies students are advised by the Developmental Studies Counselor. All other students are advised by Core Curriculum Advisors. Freshmen and transfers who have selected a major will be advised in the academic department of their major. Freshmen and transfers who have not selected a major and have not completed the core requirements will be advised by Core Curriculum Advisors.

The student's course selections must be approved by an advisor as an integral part of the registration process. Students are responsible for fulfilling the requirements of their degree program and must observe all regulations for admission to courses, including meeting prerequisite requirements.

English Composition Requirements

During the initial quarters of enrollment at Armstrong State College students must enroll in the appropriate sequence of English composition courses until the sequence has been completed and/or the Regents' Test has been passed. Students must not delay this sequence beyond their second quarter of attendance. For assistance with identifying the appropriate English composition courses, students should consult advisors in the department of their declared major or the Office of Admissions, or the Department of Languages, Literature and Dramatic Arts. See Language, Literature, and Dramatic Arts Departments, for further information.

Degree Requirements

1. Each student is responsible for fulfilling the requirements of the degree program chosen in accordance with the regulations of the college catalog.
2. Exceptions to course requirements for a degree are permitted only with the written approval of the appropriate Dean, upon the recommendation of the department head.
3. A student will normally graduate under the catalog in effect at the time of admission to the College. In the School of Health Professions, a student will graduate under the catalog in effect at the time of admission or readmission (whichever is more current) to a particular Health Professions program. Armstrong State College, however, reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. If students have been absent from the College for two or more consecutive years, they should expect to meet all requirements in effect at the time of return.
4. Not more than one-fourth of the work counted toward a degree may consist of courses taken by correspondence, extension, or examination. No correspondence courses may be used to meet the requirements in the major field or related fields for the Bachelor's degree or in English composition of foreign language. No correspondence courses may be taken while a student is enrolled, without prior approval of the appropriate Dean and the head of the department in which the student is majoring.
5. By State law, one of the requirements for a diploma or certificate from schools supported by the State of Georgia is a demonstration of proficiency in United States history and government and in Georgia history and government. A student at Armstrong

State College may demonstrate such proficiency by:

A. Examinations — Students may take either the relevant CLEP, College Board Admissions Testing Program Achievement Test, or Advanced Placement Test.

B. Credit in the following — for U.S. and Georgia Constitution: POS113; for U.S. and Georgia History: HIS 251 or 252 or any upper divison course in U.S. History.

6. To qualify for the baccalaureate degree, a student must earn at Armstrong at least 45 quarter hours of credit applicable toward the degree. Additionally, the student must complete successfully at Armstrong a majority of the upper division credits required in the major field of study. For students in teacher education programs, the major field of study is the teaching field. For the Associate Degree, the student must complete at least 45 quarter hours of course work at Armstrong State College. Armstrong students enrolled in the cooperative degree programs with Savannah State College in Business Education, Industrial Arts Education, and Trade and Industrial Education may be exempted from these requirements by a recommendation of the Dean of the School of Education, concurrence by the School of Education Curriculum Committee and approval of the Committee on Academic Standing.
7. For graduation the student must earn an overall average of 2.0 or better considering work taken at all colleges, computed in such manner that a course will be counted only once, regardless of the number of times that it has been repeated. The grade earned in the last attempt will determine the number of honor points assigned for graduation. Additionally, the student must earn a GPA of 2.0 or better in each of the following:
   A. all work at Armstrong
   B. All courses in the major field.
8. To qualify for a second baccalaureate degree, a candidate must earn at Armstrong at least 45 additional hours of credit and meet all qualitative requirements for the degree.
9. Before a degree will be conferred students must pay all fees and must submit to the Registrar a completed "**Application for Graduation**" two quarters before graduation. A candidate for a degree, unless excused in writing by the President, Vice President and Dean of Faculty or Vice President of Student Affairs, must attend the graduation exercises at which a degree is to be conferred.
10. All students must successfully complete the Regents' Test and must take an Exit Examination in their major field as may be stipulated as requirements for graduation. Candidates for a second baccalaureate degree are exempted from the Regents' Test requirement.

Course and Study Load

The normal course load for full-time students is 15-18 quarter hours including a course in physical education during the freshman and sophomore years.

A full-time student is defined as one who is registered for 12 or more hours. A part-time student is one registered for fewer than 12 quarter hours. A student should plan about ten hours preparation per week for each 5 quarter hour course.

Classification of Students

A student who has earned fewer than 45 quarter hours will be classified as a freshman; between 45 and 89 a sophomore; between 90 and 134 as a junior; and 135 or more as a senior.

Overloads and Courses At Other Colleges

Permission to enroll for more than 18 quarter hours will be granted by the Registrar to a student:

1. with an average grade of "B" for full-time enrollment in the preceding quarter, *or*
2. with an overall grade-point average of 3.0, *or*
3. requiring an extra course in one of the two quarters prior to graduation.

No student will be allowed to register for more than 21 quarter hours. A student who is on academic probation will not be permitted to register for more than 18 quarter hours. Exceptions to these limitations may be made only by the appropriate Dean.

A student enrolled at Armstrong who at the same time takes courses for credit at another college may not transfer such credit to Armstrong, unless written permission from the appropriate Dean has been obtained.

Reports and Grades

Grade reports are issued directly to students at the end of each quarter. The following grades are used in the determination of grade-point-averages:

Grade	*Honor Points*
A (excellent)	4.0
B (good)	3.0
C (satisfactory)	2.0
D (passing)	1.0
F (failure)	0.0
WF (withdrew, failing)	0.0

The cumulative GPA is determined by dividing the total honor points earned by the total hours attempted at Armstrong State College. The adjusted GPA is determined by dividing the total honor points earned by the total hours attempted, with hours and honor points for repeated courses not duplicated in the calculation.

Armstrong State College also uses the following symbols for grade reports. These symbols carry no honor points and are not included in the determination of either the cumulative GPA or the adjusted GPA.

Symbol	*Explanation*
W	withdrew, no penalty
I	in progress or incomplete
S	satisfactory
U	unsatisfactory
V	audit
K	credit by examination
P	passing

An "I" which has not been removed by the middle of the succeeding quarter is changed to an "F" unless the instructor recommends an extension in writing addressed to the appropriate Dean. The "S" and "U" symbols may be utilized for completion of degree requirements other than academic course work (such as student teaching, clinical practice, etc.). Withdrawal without penalty (W) is not permitted after the quarterly dates listed as the dates for mid-term. Exceptions to this policy must be approved by the Dean of the School in which the course is taught and will be approved only on the basis of hardship. Appeals for a change of grade may be initiated through the head of the appropriate academic department in accordance with the *Regulations* of Armstrong State College.

Honors

Dean's List: Students enrolled for at least ten quarter hours of course work who earn an honor point average of at least 3.6 will be placed on the Dean's List. Only course work taken at Armstrong will be used in the computation of Dean's List honors.

Cum Laude: Those students graduating with an honor point average of 3.2 through 3.499 will be graduated *cum laude.*

Magna Cum Laude: Those students graduating with an honor point average of 3.5 through 3.799 will be graduated *magna cum laude.*

Summa Cum Laude: Those students graduated with an honor point average of 3.8 through 4.0 will be graduated *summa cum laude.*

All work attempted at Armstrong and other accredited institutions will be considered in computing honors for graduation.

Attendance

The control of student attendance at class meetings and the effect of attendance on the grades in a course are left to the discretion of the instructor.

A student is responsible for knowing everything that is announced, discussed, or lectured upon in class as well as for mastering all assigned reading. A student is also responsible for submitting on time all assignments and tests, recitations and unannounced quizzes.

The instructor will be responsible for informing each class at its first meeting what constitutes excessive absence in that particular class. Each student is responsible for knowing the attendance regulation and for complying with it. An instructor may drop a student from any class with a grade of "W" or "WF," as appropriate, if in the instructor's judgment the student's absences have been excessive.

Academic Standing

The college recognizes four academic categories: Good Standing, Good Standing with Warning, Academic Probation, and Academic Suspension. Students are expected to maintain or exceed the grade point average (GPA) as indicated in the chart below.

Quarter Hours Attempted at Armstrong and Elsewhere	Required Adjusted GPA
0-15	1.3
16-30	1.4
31-45	1.5
46-60	1.6
61-75	1.7
76-90	1.8
91-120	1.9
121 and over	2.0

A student who falls below the required GPA for the first time is placed on Good Standing with Warning. Failure to raise the adjusted GPA to the required level during the next quarter will result in Academic Probation. Students on Academic Probation are not in Good Standing. If the student's adjusted GPA is raised to the required level, the student is returned to Good Standing. The second or any subsequent failure to meet the required GPA will result in Academic Probation. Students on Academic Probation should plan both curricular and extracurricular activities under the guidance of their advisors.

Students on Academic Probation who fail to achieve the required adjusted GPA, but who do earn an average of at least 2.0 during the probationary quarter, will be continued on Academic Probation for the next quarter of attendance. Students on Academic Probation who neither achieve the required adjusted GPA nor earn at least a 2.0 average during the probationary quarter will be placed on Academic Suspension from the college for one quarter. A student on Academic Suspension for the first time has the option of attending summer school without having to appeal the suspension.

A student suspended for academic reasons for the first or second time may appeal by letter to the Committee on Admissions and Academic Standing. This letter should state the nature of any extenuating circumstances relating to the academic deficiency, and must be delivered to the office of Student Affairs no later than 9 AM of registration day. The decision of the Committee on Admissions and Academic Standing is final.

A student re-entering the college after an Academic Suspension is placed on Academic Probation and must meet the requirements listed above. A third Academic Suspension is final.

Repeating Courses

Any course may be repeated with the last grade to be counted in the adjusted GPA. A student who repeats any course should complete a "Notice of Course Repetition" form available in the Office of the Registrar.

Dropping Courses

A student desiring to drop a course after the quarter has begun must obtain a Drop-Add Notice in the Office of the Registrar. The notice must be signed by the instructor of the course being dropped and returned by the student to the Office of the Registrar.

A student who drops a course not more than seven class days after the course begins will receive no grade for the course. A student who drops a course after the first seven class days and on or before the quarterly dates listed for mid-terms will receive a "W" or a "WF" depending on the status in the course. A student may not drop a course without penalty following the quarterly dates listed for mid-term. A student is not allowed to drop ENG 025, 100, 101, 102, or 201 at any time unless extenuating circumstances prevail. In order to drop one of these courses, the drop form must be authorized by the Dean of the School of Arts and Sciences or a designated representative.

Withdrawing from College

Any student who finds it necessary to withdraw from college must begin the process in the Office of Student Affairs. A formal withdrawal is required to ensure that the student is eligible to return to Armstrong State College at a future date. Any refund to which a student is entitled will be considered on the basis of the date which appears on the withdrawal form.

Medical Withdrawals

A student may be administratively withdrawn from the college when in the judgment of the Dean of Student Affairs and the college physician, if any, and after consultation with the student's parents and personal physician, if any, it is determined that the student suffers from a physical, mental, emotional or psychological health condition which: (a) poses a significant danger or threat of physical harm to

the student or to the person or property of others or (b) causes the student to interfere with the rights of other members of the college community or with the exercise of any proper activities or functions of the college or its personnel or (c) causes the student to be unable to meet institutional requirements for admission and continued enrollment, as defined in the student conduct code and other publications of the college.

Except in emergency situations, a student shall, upon request, be accorded an appropriate hearing prior to final decision concerning his or her continued enrollment at the college.

Auditing Courses

A regular student wishing to audit a course without receiving credit must obtain permission of the instructor before registering for the course. During the registration process the student should request to audit. A student may not change from audit to credit status or from credit to audit status after completing the process of registration for a course. A student who audits a course will have a "V" recorded for that course. The regular schedule of fees applies to auditors. Unauthorized auditing is prohibited.

Honor Code

The Honor Code at Armstrong State College is dedicated to the proposition that the protection of the grading system is in the interest of the student community. The Student Court is an institutional means to assure that the student community shall have primary disposition of infractions of the Honor Code and that students accused of such infractions shall enjoy those procedural guarantees traditionally considered essential to fair and impartial hearing, the foremost of which is the presumption of innocence until guilt be established beyond a reasonable doubt.

1. Responsibilities of students:

   All students must agree to abide by the rules of the Honor Code. A student shall not be accepted at Armstrong State College unless he or she signs a statement affirming his understanding of this agreement. The Honor Code shall be printed in the official bulletin and the Student Handbook.

   It will be the responsibility of the Student Court or its designated representative to conduct an orientation program at the beginning of each quarter for all newly entering students to explain fully the Honor Code and to allow full discussion of its requirements.

   Any student desiring assistance with any matter related to the Honor Code is invited to seek assistance in the Office of Student Affairs.

II. Violations of the Honor Code:

   Violatons of the Honor Code may be of two kinds: (a) general and (b) those related to the peculiarities of specific course-related problems and to the understanding of individual instructors. Any instructor whose conception of cheating would tend to enlarge or contract the general regulations defining cheating must explicitly notify the affected students of the qualifications to the general regulations which he or she wishes to stipulate. The following will be considered general violations of the Honor Code.

   1. Giving or receiving any unauthorized help on any assignment, test or paper. The meaning of unauthorized help shall be made clear by the instructor of each class.
   2. Stealing when related to cheating.
   3. Plagiarizing.
   4. Giving perjured testimony before the Student Court.
   5. Suborning, attempting to suborn, or intimidating witnesses.
   6. Failing to report a suspected violation of the Honor Code.

III. Reporting Violations of the Honor Code:

   Anyone wishing to report a violation may come to the Office of Student Affairs for assistance in contacting members of the Student Court.

   A. Self-reporting: A student who has broken the Honor Code should report himself to a member of the Student Court.
   B. Anyone (faculty member or student) who is aware of a violation of the Honor Code must report the matter.
      1. Tell the person thought to be guilty to report himself to a member of the Student Court no later than the end of the next school day. After this designated time the person who is

aware of the violation must inform a member of the Student Court so that the Student Court may contact the accused person if he has not already reported himself.

2. Report the suspected violation directly to a member of the Student Court without informing the accused.

IV. The procedural rights of the students accused of violations of the Honor Code:

The essence of the procedural rights of an accused is the right to be presumed innocent until proven guilty. Specific rights are as follows:

1. The accused will be notified in writing by the Student Court or its designated representative of the nature and details of the offense with which he is charged along with the names of his accusers and the principal witnesses to be brought against him. This notification shall occur no less than three days prior to the date of the hearing.
2. The accused has the right to counsel of his own choosing. Such counsel will not participate directly in the proceedings except to advise his client. It is expected that such counsel will be drawn from the college community.
3. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to cross examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.
4. The accused may not be made to bear witness against himself. The Court may not take the refusal of the accused to testify as evidence of guilt, but this proviso does not give the accused immunity from a hearing or from recommendations reached in a hearing simply because the accused does not testify.
5. The accused shall have access to a complete audiotape of the hearing and to the record prepared by the secretary.
6. The substantive facts of a case may be re-opened for consideration upon initiation of the accused acting through normal appeal channels. The accused shall not be put in double jeopardy.
7. All witnesses will be sequestered from the hearing room during the course of a hearing. Witnesses may not discuss a pending case.
8. By prior agreement, the accused will be allowed such observers of the hearing as may be commensurate with the space available. Otherwise, in the interests of the right of privacy of the accused, hearings will be private, except that the College may also have observers additional to the advisors to the Student Court.

V. The Student Conduct Committee, the Student Court and Advisors to the Student Court:

A. Student Conduct Committee

1. The Student Conduct Committee shall be responsible to the faculty for recommending policies relating to the Academic Honor Code and the Code of Conduct, for formulating or approving rules, enforcement procedures, and sanctions within the framework of existing policies, and for recommending changes in the administration of any aspects of the Honor Code and the Student Code of Conduct. The Conduct Committee will also interview and select members for the Student Court.
2. The Committee shall consist of five teaching faculty members, the Dean of Student Affairs and four students. The four students will be the President and Vice President of the Student Court, the President of the Student Government Association, and one student-at-large. The faculty members shall be appointed by the faculty in accordance with the faculty statutes.
3. The Dean of Student Affairs shall assist the Conduct Committee in the development of policy and in the discharge of its responsibilities.

He shall coordinate the activities of all officials, committees, student groups, and tribunals for student conduct.

4. All regulations or rules relating to student conduct that are proposed by any College official, committee or student group, and for which sanctions may be imposed in the name of the College, must be submitted to the Committee for consideration and review prior to submission to the faculty and the student body. The Committee shall have 10 days in which to review the same.

B. Student Court

1. The Student Court will be selected by the Student Conduct Committee and will be composed of twelve students. Due consideration will be given to equitable apportionment of court members on the basis of academic class, race, and sex. Students on academic probation may not serve. All appointments will be issued and accepted in writing. Appointments will be made during Spring Quarter in time for newly elected members of the Court to assume their duties by May 1. Appointments will be made as needed to keep the Student Court staffed to do business on a reasonably prompt basis. These appointments may constitute permanent or temporary replacements as the Student Conduct Committee deems necessary.
2. The Student Court will elect a President, Vice President, and a Secretary from its membership. The President will preside at all meetings. The Vice President will assume the duties of the President if the President is absent. The Secretary will maintain written notes of all proceedings and audiotape records of all testimony, and will maintain exhibits of evidence which by their nature may reasonably be maintained in the Court files. A quorum of the Court shall consist of seven members. A two-thirds majority secret ballot vote is required to reach a finding of guilty. All other questions may be decided by a simple majority vote.
3. Constituency of the Student Court during the Summer Quarter shall include all appointed members in attendance, and others shall be appointed to membership by the Student Conduct Committee.
4. Student Court members shall examine their consciences carefully to determine whether they can in good conscience serve on a panel hearing a particular case, and in the event that there is any doubt, whatsoever, such members shall excuse themselves from duty on the specific panel in question.

C. Advisors to the Court

1. An advisor and an associate advisor to the Student Court shall be appointed by the President of the College.
2. Ordinarily the advisor will serve in that office for one year only and usually will be succeeded in that position by the associate advisor. Therefore, after the initial appointments, only an associate advisor will ordinarily be appointed each year. The succession of an associate to the advisor position is deemed to occur on the last day of Spring Quarter. If, for any reason, the advisor is unable to complete his term, the associate advisor shall succeed to the office of advisor and another associate advisor shall be appointed by the above procedures. If, during the Summer Quarter, neither advisor is on campus, a temporary advisor will be appointed.
3. Duties of the advisor and the associate advisor: It shall be the duty of the advisor to consult with the Court and to offer advice to the President and members of the Court on substantive and procedural questions. The advisor, or the associate advisor in the event the advisor is unable to attend, shall be present at all meetings and hearings of the Court. The advisor may not vote nor may he participate directly in the

conduct of hearings before the Court except through the chairman, or acting chairman, of the Court. The advisor should be governed at all times by the principle that a hearing before the Student Court is primarily a matter of student responsibility.

VI. Procedures and Penalties adopted by the Student Court.

The Student Court shall formulate its own bylaws governing internal organization and procedure. Such bylaws must be consistent with the Honor Code.

A. Hearings shall be called by the Court President to be held on a date not less than three nor more than ten class days after notice to the accused as provided in Section IV-2. Exceptions to these time requirements may be granted.

B. Upon reaching a finding of guilty, the Court shall make a recommendation to the Vice President of the College as to the administrative action it deems appropriate within the following limitations:

1. A minimum penalty shall be loss of assignment or test credit for the assignment or test for violations involving cheating as specified in Section II, subsections 1, 2, and 3. Additional penalties such as reprimands, suspension, or others may be recommended for any aspects of Section II.
2. Maximum penalty for a first offense of any type shall be suspension for a full calendar year.
3. Maximum penalty for a second offense may be suspension for three years.

C. Immediately following a hearing, the accused will be informed of the Court's finding, and its recommendation to the Vice President of the College. If the finding is guilty, the accused will be informed that the Court may reopen the case with the consent of the accused for good cause, within a three week period.

D. The Vice President of the College will inform all involved persons in writing of the action he has taken in view of Court recommendation. The Court Secretary will post public notice of the Vice President's action by case number without identifying the accused.

VII. Appeals of Findings and Penalties:

Should a student have cause to question the findings of the Court or the action of the Vice President of the College or both, he has the right to appeal. The channels of appeal are as follows:

A. Court findings and/or the administrative action of the Vice President of the College may be appealed within five days by writing the President of the College. Further appeal procedures will conform to the appeal procedures of the College and of the *Policies of the Board of Regents*, University System of Georgia.

VIII. Supervision of the Student Court:

As an institutional means of responding to reported infractions of the Honor Code, the Student Court is ultimately responsible to the President of the College.

Supervision of the Student Court will be accomplished ordinarily through the Dean of Student Affairs and the Advisors.

In accordance with Article VI, Section F, of the College Statutes, the Dean of Student Affairs will provide general supervision of the Student Court and will provide other guidance or services as directed by the President of the College.

IX. Revision of the Honor Code will require confirmation by the majority vote of those faculty and student body members voting.

FEES

Application

The Application Fee of $10.00 is paid by each student at the time of initial acceptance for admission to Armstrong State College. The acceptance of the Application Fee does not constitute acceptance of the student. This fee is not refundable.

Matriculation

The Metriculation Fee for students registering on campus for the normal course load of fifteen hours is $284.00. Students carrying fewer than 12 credit hours on campus in a quarter will pay at the rate of $24.00 per quarter hour in Matriculation Fees. Students

who register for off-campus credit hours will pay at the rate of $29.00 per credit hour. Matriculation fees are waived for residents of Georgia upon presentation of written documentation that they are 62 years of age or older.

Out-of-State Tuition

Non-residents of Georgia must pay a fee of $569.00 per quarter in addition to all regular fees. Students carrying fewer than 12 credit hours in a quarter who are not legal residents of the State of Georgia will pay at the rate of $47.00 per quarter hours an Out-of-State Fee in addition to regular fees. Students who register for off-campus credit courses will pay at the rate of $47.00 per quarter hour Out-of-State Fee in addition to all regular fees. Out-of-State tuition fees are waived for *active duty* military personnel and their dependents stationed in Georgia, except military personnel assigned to this institution for educational purposes.

Residency Requirements

To be considered a *legal* resident of Georgia, the applicant must establish the following facts to the satisfaction of the Registrar.

1. (a) If a person is 18 years of age or older, (s)he may register as a resident student only upon a showing that (s)he has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
   (b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that (s)he has in fact established legal residence in this State.
2. If a person is under 18 years of age, (s)he may register as a resident student only upon a showing that a supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
3. A person stationed in Georgia who is on full-time, active military duty with the armed forces and a spouse and dependent children may register upon payment of resident fees even though they have not been legal residents of Georgia for the preceding twelve months.
4. A full-time employee of the University System and spouse and dependent children may register on the payment of resident fees even though (s)he has not been a legal resident of Georgia for the twelve months.
5. Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.
6. Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University Systems institutions on the payment of resident fees.
7. All aliens shall be classified as non-residents; provided, however, that an alien who is living in this country under a visa permitting permanent residence shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.
8. Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.
9. If the parents or legal guardian of a minor change the legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non-resident rate.
10. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

Residency Reclassification

A student is responsible for registering under the proper residency classification. A student classified as a nonresident who believes that he/she is entitled to be reclassified as a legal resident may petition the Registrar for a change in status. The petition must be filed no later than sixty (60) days after the quarter begins in order for the student to be considered for reclassification for the quarter. If the petition is granted, reclassification will not be retroactive to prior quarters. The necessary forms for this purpose are available in the Registrar's office.

Student Activity

There will be a Student Activity Fee of $20.00 per quarter for all students.

Athletic

There will be an Athletic Fee of $30.00 per quarter for all students.

Applied Music

Applied music courses consist of one twenty--five minute private lesson per week (Music 130) or a fifty minute private lesson per week (Music 140, 240, 340, 440). A special fee of $37.50 is charged for students enrolled in Music 130. A special fee of $75.00 is assessed for Music 140-440 to music majors enrolled for less than 12 hours and to students who are not music majors. Music majors may enroll, at no charge, for one applied music course from Music 140-440. Additional applied music courses will be assessed a special fee at the non-music major rate. The applied music fee is refundable only if the student does not meet the first scheduled lesson.

Late Registration

A late registration fee of $10.00 will be charged to students registering after the registration period. This fee is not refundable.

Graduation

A Graduation Fee of $25.00 will be collected from each candidate for graduation. If the candidate is receiving a second degree at the same graduation ceremonies an additional fee of $5.00 will be collected. The fee will be $25.00 for a second degree awarded at a subsequent graduation ceremony. The Graduation Fee must be paid at the time the graduation application is submitted (two quarters prior to graduation).

Transcript

Each student is entitled to one official transcript of his college work. The charge for additional copies is $2.00 each.

Privilege

Application Fee	$10.00
Late Registration	$10.00
Graduation Fee	$25.00
Transcript, first one free, each additional	$ 2.00
Applied Music Fee	$37.50/$75.00
Health Professions Deposit (at application, non-refundable)	$50.00

Summary of Fees

Matriculation, per quarter	$320.00
Student Activity, per quarter	$ 20.00
Athletic, per quarter	$ 30.00
Total for Georgia Residents	**$370.00**
Out-of-State Tuition, per quarter	$640.00
Total for Non-Residents	**$1011.00**
Matriculation Part-Time Students, per quarter hours	$21.00
Non-Resident Tuition, Part-Time Students, per quarter hour (in addition to Matriculation Fee)	$41.00

Short Courses

Fees are announced for each quarter when the course is scheduled by the College.

Students who formally withdraw from a short course or conference before its first meeting will receive a full refund of fees paid provided the withdrawal is in writing and is received by the Joint Continuing Education center prior to the first class meeting of the course or conference. Withdrawals made in writing after the first class meeting will be given a refund minus a ten dollar handling fee. No refunds will be made for withdrawals received after the second class meeting. Fees paid for courses or conferences cancelled by the Joint Continuing Education Center will be refunded 100%.

Off-Campus Courses

An additional fee of $5.00 per quarter hour is charged for off-campus courses. Students taking only off-campus courses are not required to pay Student Activity, Health Service, I.D., or Athletic fees. The total fees for each five hour course are $145.00.

Refunds

Refunds of fees will be made only upon written application for withdrawal from school. No refunds will be made to students dropping a course. Privilege fees are not refundable. Students who formally withdraw on the date of scheduled registration or during one week following the scheduled registration date are entitled to a refund of 80% of the fees paid for that quarter. Students who formally withdraw during the period between one and two weeks after the scheduled registration date are entitled to a refund of 60% of the fees paid for that quarter. Students who formally withdraw between two and three weeks after the scheduled registration date are entitled to a refund of 40% of the fees paid for that quarter. Students who formally withdraw during the period between three and four weeks after the scheduled registration date are entitled to a refund of 20% of the fees paid for that quarter. Students who withdraw after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of the fees paid that quarter.

Financial Obligations

Any student delinquent in the payment of any financial obligation to the College will have grade reports and transcripts of records encumbered. Grade reports and transcripts will not be released, nor will the student be allowed to re-register at the college until all financial obligations are met.

Fees for each quarter are to be paid in full at the time of registration.

If a check is not paid on presentation to the bank on which it is drawn, the student's registration will be cancelled and the student may re-register only on payment of a service charge of $15.00 or five percent of the check, whichever is greater, and the late registration fee.

Notice of Fee Changes

Fees and Charges are subject to change at the end of any quarter.

FINANCIAL AID

Governing Principles

Armstrong State College subscribes to the principle that the primary purpose of a student financial aid program is to provide financial assistance to students who without such assistance would be unable to attend college. The primary responsibility for financing a college education is the inherent obligation of the student and/or family. Financial assistance from Armstrong State College should be viewed as supplementary to the efforts of the student and/or family. An assessment of parental ability to contribute toward the student's educational expenses is made by the College Scholarship Service so that neither the parent, the student, nor Armstrong State College be required to bear an undue share of the financial responsibility.

General Information

Financial asistance is distributed both directly and indirectly to eligible students from the federal, state, and local governments and from private donors through the Office of Student Financial Aid. Assistance is provided directly when the name of the recipient and the amount of assistance to be given are determined prior to the receipt of the funds by the College. Assistance is provided indirectly when funds are given to the College for general distribution to students who are determined to be eligible for receipt of these funds. In both cases, it is the responsibility of the Office of Student Financial Aid to insure that the recipient has met all requirements and regulations concerning the receipt of such funds. Students who are found to be in violation of requirements and regulations concerning the receipt of financial assistance may jeopardize their continued eligibility for participation in the financial aid program. It is the student's responsibility to be knowledgeable about all requirements governing the receipt of funds from each program from which the student receives financial assistance.

Student financial aid is awarded to eligible students on the basis of need in nearly all cases except scholarships which have been provided by donors for the purpose of recognizing academic promise or achievement. The determination of need is provided for Armstrong State College students through the use of the Financial Aid Form (FAF) and the College Scholarship Service which processes this form. The process involves an analysis of the data provided by the student's family or, if independent, by the student. This analysis is sent to the Office of Student Financial Aid where it is compared with the cost of education for the appropriate classification of student. If the analysis shows that the family contribution or self contribution is less than the cost of education, financial need has been established. The Office of Student Financial Aid has the legal right to challenge information provided on the Financial Aid Form if, in the opinion of the financial aid officer, that information appears to be inaccurate, incorrect, or misleading. Information relating to a student's eligibility is available to that student when he/she has completed all the necessary requirements for processing his/her financial aid application at the College.

There are two basic student classifications: (1) dependent student who is a commuter (living with parents or guardian) or resident (not living with parents or guardian, but either receiving financial support from them or claimed by them as a tax deduction); (2) independent student who is single (and totally self-supporting) or married (or who is a single parent with one or more children). Each classification constitutes a cost of education group from which eligibility for financial aid is derived. An example of the cost of education for a dependent commuter student for one year would be:

Tuition and fees	$1095
Books and supplies	300
Room and board	1000
Transportation	500
Personal expense	850
TOTAL	$3,745

The cost of tuition and all pertinent fees, and the refund policy of the College, are outlined in the "Fees" section of this Catalog.

In general, students who enter the College at the beginning of the Fall Quarter have a greater opportunity to receive financial assistance than those who enter later in the academic year. The awards processing time usually runs from June 1 to August 31. It is during this period that the Office of Student Financial Aid distributes its yearly allocation of funds to students who have completed the process cycle. In the event that there is a shortage of funds, students who are eligible for financial aid but whose applications were late will be placed on a waiting list until such time as funds become available.

Every eligible student has a right to receive financial assistance provided that (1) funds are available at the College for award to the student; (2) the student meets the requirements pertinent to the program(s) from which assistance is sought; (3) the student has been admitted to the College, or in the case of an enrolled student, meets the standards of satisfactory academic progress as outlined in the "Academic Regulations" section of this *Catalog*. In addition, it is the student's responsibility to adhere to all regulations and requirements heretofore mentioned and to notify the Office of Student Financial Aid of any change in status which would have any effect on the legitimacy of financial assistance being received.

Student Retention. Information regarding student retention (i.e., enrollment patterns at the College) may be obtained upon request from the Office of the Registrar. Copies of this information are available to the student at a cost of $1.00 per copy. Information regarding specific degree programs is available in this *Catalog* and from the Head of the Department in which a specific academic program is offered.

Application Information

An applicant for student financial aid must:

1. Be enrolled or accepted for enrollment at College;
2. Obtain, complete, and submit a Financial Aid Form (FAF) to the College Scholarship Service by June 30 preceding the next academic year.
3. Submit a PELL GRANT Student Aid Report to the Office of Student Financial Aid by June 30 preceding the next academic year.
4. Complete and submit the Request for Student Financial Aid Form.
5. Submit a copy of the previous year's Income Tax Return (IRS).

It may be necessary to complete additional forms depending on a student's year in school,

major course of study, and/or eligibility for a particular program. Applications for financial assistance must be repeated annually. Most student financial aid awards are for the entire academic year, with payments made to the student in equal quarterly installments. A student may, however, apply and be considered for financial assistance during the academic year, if funds are available.

All student financial aid awards are contingent upon the availability of funds and the recipient's maintaining satisfactory progress toward a degree as defined in this Catalog.

The minimum number of quarter hours for which a student financial aid recipient may enroll per quarter varies from program to program. Some require at least 12 hours per quarter (full-time status). All programs require that the student be enrolled at least half-time, taking 6 or more quarter hours.

Students applying for financial aid, whether eligible or not, who do not meet or adhere to the above requirements will not be considered for financial aid. It is the responsibility of the parents and/or student to determine that all pertinent information and data have been obtained and are located in the Office of Student Financial Aid to assure a complete and accurate awarding of financial assistance.

When the student has received acknowledgement from the College Scholarship Service that the Financial Aid Form (FAF) has been sent to the College and the student has delivered the PELL Grant Aid Report (SAR) and the Request for Student Financial Aid, the Office of Student Financial Aid will send the student a tentative award notice. The student should schedule an appointment with a financial aid officer. The officer will discuss the student's financial aid package and a final award letter indicating the type of award(s) and amount(s) will be processed.

Students who submit the PELL Grant Student Aid Report only will not be considered for any other type of financial assistance awarded by the College.

Transfer Students

In addition to the above requirements for all financial aid students, transfer students are required to submit a complete financial aid transcript from the financial aid office of each institution of higher education previously attended whether or not aid was received. No awards will be made until these documents have been received by the Office of Student Financial Aid.

Categories of Aid

The College provides necessary financial assistance through grants, scholarships, work, and/or loans. Grants and scholarships are awards that require neither service nor cash repayments. Opportunities for part-time employment, usually on campus, are provided for eligible students who are paid federal minimum wages on an hourly basis. Loans require cash repayment, service repayment, or a combination of both. These funds are made available through the federal government, state government, and local sources. Students in the Continuing Education, Exchange, and Transient classifications are not eligible for financial aid.

Federal Assistance

The Pell Grant Program is designed to provide financial assistance to attend post-high school educational institutions. The Pell Grant award amounts vary, depending upon the student's eligibility, and unlike a loan, do not require repayment.

The Supplemental Educational Opportunity Grant Program is available to eligible students who establish exceptional financial need as determined by the College Scholarship Service. The minimum award is $200.00 per academic year.

The College Work-Study Program allows an eligible student to work during the quarter. Satisfactory work performance is mandatory. The student must also maintain satisfactory academic progress. A student on academic suspension, even though readmitted on appeal is not allowed to participate in the Work-Study Program.

A *National Direct Student Loan* is no longer available to students at the College. Students needing to secure academic loans should (1) if a resident of Georgia, inquire about the State Student Loan program, or (2) is a non-resident of Georgia, contact the higher education corporation in their state of residency.

State Assistance

Georgia Incentive Scholarships are awarded

to residents who began post-high school education after April 1, 1974, and whose eligibility has been determined by the College Scholarship Service financial analysis. All veterans who were residents of Georgia at the time of their entry into military service may apply. Students must also request submission of a copy of the FAF to the State Scholarship Commission. All students applying for Georgia Incentive Scholarships are required to apply for a Pell Grant.

The Guaranteed Student Loan Program offers loans to eligible students through both local banks and its own agency. For legal residents to apply through the state, they must be denied loans by local lenders. Students must complete the College Scholarship Service application to determine eligibility.

The Health Career Loan Program is available to legal residents formally admitted into health career degrees at the college. These loans are service cancellable upon graduation and employment within the state of Georgia.

The Board of Regents' Fund sponsors a program under which Georgia residents may qualify for financial assistance at units of the University System. Applicants must be in the upper 25% of their class and have established a financial need through the College Scholarship Service. Recipients must agree to work in the state, at an occupation for which they are qualified educationally, one year for each $1,000 received. If unable to meet this obligation, the student is expected to repay the full amount with interest at the rate of 3 percent simple interest.

Students may be recommended for employment on the Institutional Work Study Program. Some departments and offices of the college have funds available to hire student workers. Initial contacts should be made by the student with the Director of Student Financial Aid.

Local Assistance

Institutional Short-Term Loans are available to students for a maximum of 60 days. These loans are used primarily to assist students with the payment of tuition and fees. These loans are available to eligible students for a maximum of $150. Other requirements concerning short-term loans are available in the Office of Student Financial Aid.

Government Benefits

Social Security provides monthly benefits to children when a parent dies, starts receiving Social Security retirement, or starts receiving disability benefits. Because of changes in the law, students should contact the Social Security Office concerning eligibility.

The Georgia Vocational Rehabilitation Program provides financial assistance for the applicant who possesses an impairment which would prove to be a vocational handicap. Students who think that they may qualify under this program should contact the Vocational Rehabilitation center located at 420 Mall Boulevard. Applicants sponsored by Vocational Rehabilitation or other community agencies must apply at least six weeks before the beginning of any quarter to insure proper processing of applications.

Veterans Information

Veterans who served on active duty for other than training purposes for more than 180 days, any part of which occurred after June 1, 1966, are eligible for financial assistance to attend college through the G.I. Bill. Generally, sons and daughters of veterans whose death or total disablement was a result of service in the armed forces are eligible for financial benefits under the veterans program for educational assistance.

A prospective student must first make application to the College and gain approval for admission from the Office of the Registrar/Director of Admissions. A veteran cannot receive benefits while matriculating under a Continuing Education admission status.

Once accepted, the veteran should go to the Office of Student Financial Aid and obtain an application for VA educational benefits. The veteran must submit to the Office of Veterans Affairs, an original DD 214 (or copy number four) and supporting documentation of dependency status (marriage certificate, divorce decree, if previously married; and birth certificates of all dependent children.)

Students transferring from other educational institutions, OJT programs, or correspondence schools must complete a "Request of Change of Place" Form 1995 with the Armstrong Office of Veterans Affairs. At the time of initial matriculation each student/veteran must declare a specific program of study (major) and must follow the curriculum for this major without

exception or benefits may be interrupted. Any student receiving government benefits from the Veterans Administration must check with the Office of Student Financial Aid at the beginning of each quarter and file a form declaring the specific courses and number of credit hours which he is attempting. All student/veterans are reminded that they must report anay changes in attendance, i.e., dropping, adding or withdrawal from school, to the Office of Student Financial Aid immediately following such action. Veterans entering school under the G.I. Bill should have sufficient funds to finance themselves until payments from the VA begin (approximately six weeks after application). Student/Veterans are also subject to the SATISFACTORY PROGRESS standards outlined in this section.

Scholarships

Armstrong State College accepts Scholarship applications throughout the year. Most awards are made annually during the summer. Scholarships are awarded when:

1. An agency notifies the College of its intention to award a scholarship to a specified student, or
2. An agency informs the College that it will award scholarships to a specific number of students selected by the Office of Student Financial Aid.

Applicants for scholarships awarded by the college must:

1. Complete the initial application process for financial aid;
2. Complete a separate scholarship application which may be obtained from the Office of Student Financial Aid;
3. Have, as an entering freshman, a minimum combined verbal and mathematical SAT score of 1,000;
4. Have, as a returning or transfer student, a minimum overall grade-point average of 3.0.
5. Unless otherwise specified, be a full-time student.
6. Submit a current copy of the student's academic transcript.

Award notificaiton will be given to those students selected at the end of the selection process. Contact the Office of Student Financial Aid for scholarship applications.

Satisfactory Academic Progress

For purpose of financial aid, a student is deemed to be making satisfactory progress toward a degree until such time as he/she is placed on academic suspension from the College. The student, upon his/her readmission to the College, must, in the first quarter after readmission, earn a 2.0 grade-point-average as a full time student, before he/she is again considered to be making satisfactory progress toward a degree. The award of financial aid will be suspended during this quarter.

Students who have attempted 245 hours in a baccalaureate degree program are no longer considered to be making satisfactory academic progress. Students will automatically be removed from financial aid once this condition has been met. Students may also be removed from financial aid if a pattern of course withdrawals is established. Students must also meet a new federal requirement concerning an hours attempted/completed standard. The standard is graduated to reflect the number of hours attempted/completed by the student. This standard is outlined in the financial aid packet which is distributed to students by the Financial Aid Office.

STUDENT SERVICES AND ACTIVITIES

The Office of Student Affairs, administered by the Dean for Student Affairs and Development, provides myriad services and activities to foster the development of a well-rounded college experience. This catalog section includes not only services and activities sponsored by Student Affairs, but also those administered by other campus offices and divisions which affect student academics and cultural life.

CHAOS
Freshman Orientation Program

CHAOS (Communication, Help, Advisement, Orientation and Service) is an orientation program designed to provide freshmen with the information, services and support essential to a successful transition into the Armstrong community.

Participants of these one day Summer CHAOS sessions receive individual attention from student leaders and staff as they acquire first hand experience with academic advising, registration, campus facilities, student activities, college policies and procedures.

The CHAOS program is a cooperative effort of Student Leaders and college staff. Competitive selection of student leaders occurs annually during Spring Quarter. Inquiries concerning CHAOS should be addressed to the Office of Student Affairs.

An abbreviated orientation program is scheduled for students new to the college prior to registration Winter, Spring, and Summer Quarters.

Counseling

Counseling is a college service to all students who are concerned about achieving educational and occupational goals and resolving personal problems. Counselors offer individual conferences to students who voluntarily seek help in choosing a major, setting career goals, studying and earning good grades, and dealing with academic demands or conflict with family or friends.

Counselors give tests to measure interest and ability, provide information to explore education and work opportunities, and instruct students on the use of computerized career and study skills development programs. In addition, counselors can often provide information about college policies, curriculums, and campus resources.

Testing

Individual tests of interests, values, and abilities are available to students through counseling services. In addition, the following testing programs are administered by the counseling staff: ACT Proficiency Examination Program (PEP), College-Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), Dental Admission Test (DAT), Graduate Record Examination (GRE), Medical College Admission Test (MCAT), Miller Analogies Test (MAT), National Teacher Examinations (NTE), Regents' Testing Program and Veterinary Aptitude Test (VAT). Other testing programs about which information is available include the Graduate Management Admission Test (GMAT), Law School Admission Test (LSAT), and Pharmacy College Admission Test

Career Development and Placement

The Career Development and Placement Office provides assistance with all aspects of career development. Students can get help with the early stages of career development such as selecting an academic major, gathering occupational information and investigating career paths through individualized career counseling and computerized career guidance techniques. Experiential opportunities such as internships, part-time and temporary employment are coordinated by the office staff.

Students closer to graduation may take advantage of one-on-one instruction and workshops for resume writing, interviewing skills and job search strategies. Job listing, referral and on-campus interview services are also available to students and alumni registered with the office.

All seniors are strongly urged to register with the office at least three quarters prior to graduation to establish a placement file and become eligible for placement services.

Veterans Services

An Office of Veterans Affairs is maintained to advise veterans concerning admissions procedures and services available to them. The office employs a number of student veterans to assist in meeting the needs of the veteran student body.

Student Organizations

Student organizations at Armstrong State College reflect the natural variety of interests found in a diversified student body. These include the following:

Religious:
- Baptist Student Union

Greeks:
- Alpha Gamma Delta Sorority
- Phi Mu Sorority
- Sigma Kappa Sorority

Professional:
- Alpha Sigma Chi (Physical Education)
- American Chemical Society
- Association for Computing Machinery

Data Processing Management Association
Georgia Association of Nursing Students
James Moore Wayne Law Club
Jr. American Dental Hygienists Association
Medical Record Association
Medical Technology Student Association
Music Educators National Conference
The E.B. Twitmeyer Society (Psychology)

Interest:
Armstrong College Republicans Club
Band
Cheerleaders
Chorus
Dungeoneers
Masquers
Pep Band
Vocal Ensemble

Honorary:
Beta Beta Beta (Biology)
Epsilon Delta Pi (Computer Science)
Joel H. Hildebrand Honor Society (Chemistry)
Kappa Delta Pi (Education)
Phi Alpha Theta (History)
Phi Eta Sigma (Scholastic for freshmen)
Pi Mu Epsilon (Mathematics)

Student Government

The Student Government Association is the official governing body of the students at Armstrong State College. It assists in formulating a program of student services and activities, and it strives to express the will of the majority of students and to provide experience in democratic living.

All students are automatically members of the Student Government Association and are entitled to vote in SGA elections. Qualified students may seek positions of leadership in the Student Government Association by running for office during the Spring or Fall elections.

Student Publications

The official student publicatons on campus are the *Inkwell* (the College newspaper), the *Geechee* (the College yearbook) and the *Calliope* (the College literary magazine). All three publications are produced by students under the supervision of approved college advisors. Financed in part by the Student Activity Fund, each provides opportunities for students in creative writing, reporting, photography, and design.

Housing

There is no student housing on campus. Apartments for students are located within walking distance of the College. For further information regarding housing, please contact the Office of Counseling and Placement.

Intercollegiate Athletics

Armstrong State College is affiliated with the National Collegiate Athletic Association (NCAA). The men's athletic teams are cross country, soccer, basketball, baseball, tennis, and golf. The men's programs are associated with the NCAA while the women's athletic squads in basketball, softball, and tennis are associated with the NAIA. (Armstrong will remain Division II of the NCAA through 1985 at which time it will move to the Division I level.)

Intramurals

The Student Intramural Council and Physical Education Department provide a diversified program available to all students and faculty, including organized competitive sports, recreational activities, and clubs. Any student, faculty, or staff person interested in participating in these activities should contact the Director of Intramurals.

Cultural Opportunities

Nationally known speakers, contemporary concerts, dances, popular films, exhibits and performances by outstanding classical and modern artists from around the world complement the student's general education. These programs are selected and coordinated by the College Union Board. Student dramatic, choral, and instrumental groups under professional direction have established distinguished traditions.

Computer Services

The Office of Computer Services coordinates a campus-wide system of computer services.

The Director also provides technical assistance to the faculty and staff of the College in the development of computer programs and

systems. Through participation in the University System Computer Network, information processing devices located on campus are connected via a direct telephone line to the large computers located at Georgia State University and the University of Georgia.

Computer use time is free for Armstrong students, faculty and staff. The Cyber 740 and IBM 370 can be accessed using many different programming languages. Contact Computer Services for a user number. Students in Computer Science courses receive a number automatically. Help is provided in computer control language, statistical packages and other areas of interest.

Writing Center

The Writing Center, located in Gamble 109, is a place where students in all disciplines may come for help with their writing. Tutors in the Writing Center offer individual instruction in basic writing skills and provide guidance in the preparation of essays, reports, and research papers. The aim of the Writing Center is not only to assist students in core composition courses, but also to work with faculty to improve writing across the curriculum. The center is administered by the Department of Languages, Literature, and Dramatic Arts.

Library Services

Lane Library, built in 1966 and extensively enlarged in 1975, serves the library needs of the Armstrong State College community. The staff attempts to combine the traditional repository responsibility of academic libraries with newer concepts of librarianship that include bibliographic instruction, computer-assisted information retrieval, and audio-visual production/circulation.

The library collection consists of approximately 500,000 total resources, including 130,000 books and periodicals, 300,000 microforms, 13,000 records, slides, motion pictures, and videotapes, and 850 newspaper and periodical subscriptions. A Florence Powell Minis Collection includes college archives, material of local color, and a special collection of first editions and Conrad Aiken works. An interlibrary loan system augments the collections.

Lane Library has taken advantage of the latest technology to improve its services and operations. Library technical services are accomplished primarily through membership in a national bibliographic utility; reference services are strengthened via computerized bibliographic searching, and audio-visual services are rendered through sophisticated graphic/television/software distribution divisions

Parking Regulations

All vehicles driven on campus should display a college parking decal on the left rear bumper. Free decals are available at the Security Office on Science Drive.

All students, faculty, and staff are encouraged to become aware of the parking regulations. A set of regulations may be picked up in the Security Office or Office of Student Affairs.

Development Activities

The purpose of the Office of Development is to promote funding for college programs from sources supplemental to state appropriations and student fees. To accomplish this purpose, the College participates in federal and other grant supported activities, and seeks assistance from alumni and friends. From private sources, the College accepts memorial and other gifts for the athletic program, instructional equipment, library books, matching funds for grants, scholarships, and other restricted purposes. Unrestricted contributions are accepted to be used at the discretion of the President to meet special and unforeseen needs. Gifts of any size can be used to add to the library collection in the name of an individual or an agency; all gifts are acknowledged and published, where appropriate and when requested. Gifts for scholarships are generally received by the College in one of two ways: the donor specifies support or choice of specific students, with the College serving only as a distribution agent; or the donor specifies support of student scholarships generally or scholarships within a broad academic field, with the College identifying the gift by name, if appropriate, and distributing the funds according to standard policies and procedures. Gifts of this latter type are tax deductible. The Dean for Student Affairs and Development is pleased to provide futher information to any prospective donor.

Alumni Office Activities

The primary purposes of the Alumni Office are to keep former students informed about the

College and to help them keep in touch with each other. Any person who at any time was matriculated as a regular student is eligible for membership in the Alumni Association and, upon payment of his dues, will receive association periodicals, and may vote and hold office in the Association. The Alumni Office assists in arranging class reunions, board meetings, and other functions. For further information contact the Alumni Secretary.

DEGREE REQUIREMENTS

University System Core Curriculum

Each unit in the University System of Georgia requires as a Core Curriculum for all baccalaureate degree programs the following minimum number of quarter hours in the major areas of study.

Areas of Study	Hours
Area I	
Humanities, including, but not limited to, grammar & composition & literature	20
Area II	
Mathematics & the natural sciences, including, but not limited to, mathematics and a 10-hour sequence of laboratory courses in the biological or physical sciences	20
Area III	
Social Sciences, including, but not limited to, history & American government	20
Area IV	
Courses appropriate to the major field of the individual student	30
TOTAL	90

In addition to the University System Core Curriculum requirements as outlined above, Armstrong State College requires six quarter hours in physical education as part of all baccalaureate degree programs.

Armstrong State College Core Curriculum

The student in any baccalaureate degree program at Armstrong State College must complete the following specific Core Curriculum requirements. Consult the relevant departmental section for a complete statement of degree requirements for a specific program. Certain courses in the Core Curriculum may be exempted with credit awarded.

	Hours
Area I	
Humanities	20
ENG 101, 102 or 192, 201 or 292	15
One of the following courses: ART 200, 271, 272, 273, MUS 200, PHI 200, 201, ENG 222	5
Area II	
Mathematics & the Natural Sciences	20
One of the following course sequences: MAT 101, 103 / MAT 101, 195 / MAT 101, 220 / MAT 101, 290	10
One of the following course sequences: BIO 101 or 111, 102 or 112 / CHE 121, 122 / CHE 128, 129 / PHY 211, 212 / PHY 217, 218 / PHS 121, 122	10
Area III	
Social Sciences	20
HIS 114 or 191, 115 or 192	10
POS 113	5
One course selected from: PSY 101, SOC 201, ANT 201, ECO 201 or 202	5
Area IV	
Courses Appropriate to the Major Field	30
Art	
ART 111, 112, 201, 202, 213	25
MUS 200 or 210	5
Art Education	
ART 111, 112, 201, 213	20
EDN 200	5
PSY 101	5
Biology	
SCI and/or MAT electives (100-200 level) or any foreign language	10
CHE 128, 129	10
BIO 201	5
BOT 203 or ZOO 204	5
Biology Education	
BIO 201	5
CHE 128	5
EDN 200	5
PSY 101	5
BOT 203 or ZOO 204	5
One course selected from: ART	

200, 271, 272, 273, MUS 200, DRS 228 5

Business Education
ACC 211, 212 10
EDN 200 5
MAT 220 5
PSY 101 5
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Chemistry*
CHE 128, 129, 281 15
MAT 206 5
PHY 213 or 219 5
One course selected from: Computer Science, Mathematics, or Natural Science 5

Chemistry Education
BIO 101, 102 10
CHE 281 5
EDN 200 5
PSY 101 5
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Computer Science
CS 110 or 146, 231, 240 15
HIS 251 or 252 5
MAT 206, 207 10

Criminal Justice
CJ 100, 103, 210, 270 20
Two courses selected from: ANT 201, ECO 201, 202, DRS 228, PSY 101, SOC 201 10

Dental Hygiene Education
BIO 101, 102 10
CHE 121, 122 10
DRS 228 5
PSY 101, or SOC 201 5

Early Elementary Education
EDN 200, 202 10
DRS 228 5
GEO 211 or 212 5
HIS 251 or 252 5
PSY 101 5

English
Any foreign language 101, 102, 103, 201 20
CS 115, and one of the following: ART 200, 271, 272, 273, MUS 200, PHI 200, 201, ENG 222 10

English Education
Any foreign language sequence 15
DRS 228 5
EDN 200 5
PSY 101 5

General Science Education
CHE 128, 129 10
EDN 200 5
PHY 211 5
PSY 101 5
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

General Studies
Two courses selected from: ART 200, 271, 272, 273, ENG 222, MUS 200, PHI 200, 201, any two foreign language courses through 200 level 10
HIS 251 or 252 5
One or two courses selected from: ANT 201, CS 110, 115, or 146, ECO 201, 202, PSY 101, SOC 201 5-10
One or two courses selected from: AST 201, BIO 101, 102, 122, 123, BOT 203, CHE 121, 122, 128, 129, 201, 208, 281, GEL 201, MET 201, PHY 211, 212, 213, 217, 218, 219, PHS 121, 122, ZOO 204, 208, 209 5-10

Health Science
HS 100 5
HIS 150 & HIS 251 or 252 10
PSY 101 5
ZOO 208, 209 10

History
Any foreign language 102, 103 10
HIS 251, 252 10
Two courses selected from: ANT 201, ECO 201, GEO 111, MAT 220, PSY 101, SOC 201 10

Industrial Arts Education
DRS 228 5
EDN 200 5
JAE 201, 202, 203 15
PSY 101 5

Mathematical Sciences
CS 110 or 146, 260 10
MAT 206, 207 10
MAT 208 or CS 240 5
HIS 251 or 252 5

Mathematics Education
EDN 200 5

*A foreign language sequence is recommended.

MAT 206, 207, 208 15
PSY 101 5
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Medical Technology
CHE 128, 129, 281 15
Three courses selected from: ZOO 208, 209; PHY 212, 213; CS 110, 115 15

Middle School Education
DRS 228 5
EDN 200 5
GEO 211 or 212 5
HIS 251 or 252 5
PSY 101 5
EDU 240 2
CS 296 3

Music*
MUS (Theory) 111, 112, 113, 211, 212, 213 18
MUS (Applied) 140, 240 12

Music Education
EDN 200 5
MUS 111, 112, 113, 140, 230, 232, 281 20
PSY 101 5

Nursing
BIO 210 5
BSN 230 5
SOC 201 5
ZOO 208, 209, 215 15

Physical Education
DRS 228 5
EDN 200 5
PE 117, 211, 216, 217, 219, 228, 229 15
PSY 101 5

Physics Education
BIO 101, 102 10
EDN 200 5
PHY 213 or 219 5
PSY 101 5
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Political Science
Any foreign language sequence 101, 102, 103, or CS 110, 225, and 136 or 146 or 231 15
HIS 251 or 252 5
CJ 100, ECO 201, GEO 111, HIS 251or 252, PSY 101, SOC 201 10

Psychology*
ANT 201 5
BIO 101, 102 10
HIS 251 or 252 5
MAT 220 5
PSY 101 5

Social Science Education - Behavioral Science
EDN 200 5
PSY 101 5
Any foreign language or computer science sequence 15
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Social Science Education - History
EDN 200 5
PSY 101 5
A related foreign language sequence 15
One course selected from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Social Work (major is under de-activization)
HIS 252 5
SOC 201 5
SW 250 5
Any foreign language sequence 101, 102, 103 or PHI 201, ANT 201, and one five hour social science elective (100-200 level) 15

Speech Correction
PSY 101, 202 10
EDN 200, EXC 220 10
HIS 251 or 252 5
One course from: ART 200, 271, 272, 273, MUS 200, DRS 228 5

Trade and Industrial Education
DRS 228 5
EDN 200 5
PSY 101 5
TIE 100, 200, 210 15

Area V
Physical Education Requirements
PE 103 or 108, and 117 or 211 3
(Student should check his program of study.)
Three courses selected from: PE 100, 101, 102, 104, 105, 106, 107, 109, 200, 201, 203, 204, 205, 206, 207, 208, 209,

*A foreign language sequence is recommended.

MIL 203, 206	3
(If MIL 203 is elected, total hours total four)	
Total Core Curriculum Hours	96-97

Students should complete all core curriculum requirements during their freshmen/sophomore years.

Regents' Testing Program

— as amended, November 9-10, 1982 —

Each institution of the University System of Georgia shall assure the other institutions, and the System as a whole, that students obtaining a degree from that institution possess literacy competence, that is, certain minimum skills of reading and writing.

The Regents' Testing Program has been developed to help in the attainment of this goal. The objectives of the Testing Program are: (1) to provide Systemwide information on the status of student competence in the areas of reading and writing; and (2) to provide a uniform means of identifying those students who fail to attain the minimum levels of competence in the areas of reading and writing.

Passing the Regents' Test is defined as having passed all components of the Test by scoring above the cutoff score specified for each component. The test may be administered either in its entirety or as one or more components depending on the needs of the students. If one component of the Test is passed, that component need not be retaken; this provision is retroactive to all students who have taken the Test in any form since the inception of the program.

The intent of this policy is that passing the Regents' Test occur before the end of the student's sophomore year, that is, before the completion of 105 hours of degree credit. Students who fail the test must retake and pass the Test. Each institution shall provide an appropriate program of remediation and shall require deficient students to participate in the program prior to retaking the test.

A student holding a baccalaureate or higher degree from a regionally accredited institution of higher education will not be required to complete the Regents' Test in order to receive a degree from a University System institution.

In order to implement effectively the goals of the Testing Program:

1. Student enrolled in undergraduate degree programs shall pass the Regents' Test as a requirement for graduation. Students, including transfer students and/or readmitted students, may take the Test after they have completed the required basic core English courses. They may be required to take the Test in the quarter after they have earned 45 hours of degree credit if the Test has not been passed previously. Institutions, however, may not delay initial testing beyond the student's having earned the 60th hour of degree credit.
2. All students who have taken and have not passed the Regents' Test during the quarter in which they will have earned 75 hours of degree credit shall take the appropriate nondegree credit course or courses in remedial reading and/or remedial writing in each quarter of attendance until they have passed all components of the Test.
3. Having passed the Regents' Test shall not be a condition of transfer into an institution. All transferring students from within the System shall be subject to all provisions of this policy. Students from institutions outside the System who transfer into a System institution with 60 or more degree credit hours shall take the Test during the initial quarter of enrollment and in subsequent quarters shall be subject to all provisions of this policy.
4. Students whose mother tongue is other than English may be exempted from taking the Regents' Test by the institution provided appropriate local procedures are employed to certify the literacy competence of those students earning a degree.
5. For extraordinary situations, each institution shall develop special procedures for certifying the literacy competence of students. A written description of those procedures shall be submitted to the Chancellor for approval. A record of the action shall be reported by the Chancellor to the Education Committee of the Board of Regents. Such procedures shall include provision for remediation if needed and formal examination prior to certifying competency. Such examination shall equal or exceed the standards of the Regents' Testing Program.
6. A student may request a formal review of

his/her failure on the essay component of the Regents' Test if that student's essay received at least one passing score among the three scores awarded *and* if the student has successfully completed the courses in English composition required by the local institution. This review will be conducted in accordance with Board approved procedures.

7. The revised procedures shall be followed by all students effective January 1, 1980.
8. Remedial work as required under the above policy shall be in keeping with regulations in satisfaction of federal and state student financial assistance and such other eligibility programs.
9. These regulations shall not prohibit institutions from increasing requirements affecting the Regents' Testing Program, provided such increased requirements are authorized by the Chancellor, and provided further that such requirements are published in the official catalog of the institution prior to implementation. Such additional requirements shall in no way affect the transfer students from one institution to another or the readmission of students to University System institutions.
10. A student who fails both parts and who is required to participate in remediation shall be allowed to take the reading and essay portions of the test in separate quarters.

Procedure for Review

1. The review will be initiated at the campus level, with procedural matters to be determined by the institution. The on-campus review, however, will be conducted by the three(3) faculty members designated by the institution as a review panel.
2. The on-campus review panel may 1) sustain, by majority opinion, the essay's failing score, thus terminating the review process, or 2) recommend by majority opinion, the re-scoring of the essay by the Regents' Testing Program central office. The student will be notified concerning the results of the on-campus review.
3. If the on-campus panel recommends re-scoring of the essay, that recommendation will be transmitted in writing, along with a copy of the essay, to the office of the system Director of the Regents' Testing Program. The Director will utilize the services of three (3) experienced Regents' essay scorers other than those involved in the original scoring of the essay to review the essay, following normal scoring procedures for the essay component of the Regents' Test. The decision of this panel on the merits of the essay will be final, thus terminating the review process. The student will be notified through the institution, concerning the results of the review.

Implementation of Policy

Students attending Armstrong State College are required to take the Regents' Test no later than their first quarter of enrollment after the quarter in which the 45th credit hour is earned. Students may take the test before they earn 45 credit hours if they have completed the required basic core English courses, usually English 101, 102, and 201. For the purpose of enforcing Regents' Test Policy, enrolled students are identified by computer-printed notices on end-of-quarter grade reports and transfers through the processes of admission and transcript evaluation. Students register for the test at the Counseling and Placement Office within the publicized test registration period.

Students who neglect to take the test in their first quarter of enrollment after the quarter in which the 45th credit hour is earned will be barred from Early Registration until after they have taken the test. Students who neglect to take the test in their first quarter of enrollment after the quarter in which the 60th credit hour is earned will be barred from all phases of Registration, Early through Late, until after they have taken the test.

Students who are handicapped or for whom English is a second language are required to take the Regents' Test but may be allowed additional time in a special test administration.

Students who do not pass the test will be notified of requirements for remedial courses and eligibiity for essay review.

Physical Education Requirements

All students who are enrolled in baccalaureate degree programs for ten or more quarter hours on the daytime schedule must adhere to Armstrong Core Curriculum Area V requirements. Any student who holds a valid senior

life saving certificate and/or a valid water safety instructor certificate and/or passes the Armstrong swimming test may be exempted from PE 103 or PE 108. Physical education is not required of anyone who is beyond the age of 25 or of anyone enrolled primarily in evening classes.

Students should check their program of study for P.E. 117 and/or 211 requirements.

English and Mathematics Placement Tests

The College reserves the right to place students in appropriate English and mathematics courses in the core. Diagnostic tests are administered for this purpose. Students who have not otherwise met the prerequisite requirement for MAT 101 must achieve at least a score of 20 on the Mathematics Diagnostic Test before registering for MAT 101. Students who have not otherwise met the prerequisites for ENG 100, 101, or 102 must take the English Placement Test before registering for these courses. Students must pass ENG 99 or 100 to be eligible for ENG 101, and pass ENG 101 to be eligible for English 102. Students who make an "A" in ENG 100 are eligible to take ENG 102 upon the instructors recommendation and approval of the Department Head of LaLiDA.

State Requirement in History and Government

By state law, each student who receives a diploma or certificate from a school supported by the State of Georgia must demonstrate proficiency in United States History and Government and in Georgia History and Government. A student at Armstrong State College may demonstrate such proficiency by successfully completing examinations for which credit will be awarded.

Requirements for the Bachelor of Arts and the Bachelor of Science Degrees

Requirements for each major program leading to the degree of Bachelor of Arts with a major in Art, English, History, Music, Political Science, Psychology, or to the degree of Bachelor of Science with a major in Biology, Chemistry, Computer Science, or Mathematical Sciences are described in the appropriate departmental listing. For the BA and the BS degrees, a minimum of 185 quarter hours, exclusive of the required physical education courses, is required for graduation.

Each student in one of these major programs must complete the 96-hour core curriculum requirement as listed above.

The student will not be allowed to take senior division courses in the major field unless he has a minimum grade of "C" in all prerequisite courses in that field. No major program in a department will require more than 60 quarter hours at all levels in the major field, however, the department may recommend up to 70 quarter hours.

For its major program, a department will require from 15 to 30 quarter hours of specific courses or approved elective courses in related fields and may require language courses reaching the degree of proficiency specified by the department. Total requirements in the major and related fields, may not exceed 85 quarter hours.

Each BA or BS degree program, except those designed for Dental Hygiene, Medical Technology, Nursing, and teacher certification, will include a minimum of 15 hours of electives approved for credit within the Armstrong State College curriculum.

Associate Degree Requirements

Each associate degree program includes as part of its curriculum the following:

ENG 101, 102	10
HIS 251 or 252	5
POS 113	5
One five hour course selected from Areas I, II, or III of the Bacca laureate Core	5
Three PE credit hours	3
TOTAL	28

Students in associate degree programs are required to complete successfully the Regents' Examination and may be required to take an Exit Examination in the appropriate area of concentration.

Numbering System for Courses

In the course listings to follow, there appear three numbers in parentheses after each course

title. The first number listed indicates the number of hours of lecture; the second number listed indicates the number of hours of laboratory; the third number listed indicates the number of quarter hours of credit carried by the course. The letter "V" represents variable hours.

Courses numbered 0-99 carry institutional credit only and may not be applied to a degree program. Courses numbered 100-199 are generally planned for the freshman year; courses numbered 200-299 for the sophomore year; courses numbered 300-399 for the junior year and courses numbered 400-499 for the senior year.

Courses taken to fulfill core curriculum requirements may not be used to meet other requirements of a degree program.

Lettering System for Courses

In the course listings given in the Armstrong Core Curriculum requirements and in the departmental curricula which follow, there appear two or three letters preceding a three digit number. Following is an exhaustive list of all abbreviations used for course designation purposes.

AC = American Civilization
ACC = Accounting (SSC)
ANT = Anthropology
ART = Art
AST = Astrology

BE = Business Education (SSC)
BAD = Business Administration (SSC)
BIO = Biology
BOT = Botany
BSN = Baccalaureate Nursing

CJ = Criminal Justice
CL = Comparative Literature
CS = Computer Science
CHE = Chemistry

DH = Dental Hygiene
DRS = Drama and Speech
DSE = Development Studies English
DSM = Dev. Studies Math
DSR = Dev. Studies Reading
DSS = Dev. Studies Study Techniques

ECO = Economics
EDN = Elementary Education
EDU = Secondary Education
EEE = Early Elementary Education
EGR = Engineering
ENG = English
ENT = Entomology
ETc = Engineering Technology (SSC)
EXC = Exceptional Children

FLM = Film
FRE = French

GEL = Geology
GEO = Geography
GER = German

HS = Health Science
HIM = Health Information Management
HIS = History

IAE = Industrial Arts Education (SSC)

JRN = Journalism

LM = Library Media
LS = Library Science
LAT = Latin
LIN = Linguistics

MH = Mental Health
MT = Medical Technology
MAT = Mathematics
MET = Meteorology
METc = Mechanical Engineering Technology (SSC)
MIL = Military Science
MPS = Museum Preservation Studies
MUS = Music

NSc = Naval Science
NUR = Nursing (Associate)

OAD = Office Administration (SSC)
OCE = Oceanography

PA = Public Administration
PE = Physical Education
PHI = Philosophy
PHS = Physical Science
PHY = Physics
POS = Political Science
PSY = Psychology

RT = Respiratory Therapy

RAD = Radiologic Technologies
RUS = Russian

SOC = Sociology
SPA = Spanish

TIE = Trade and Industrial Education (SSC)

ZOO = Zoology

DEGREE PROGRAMS

The degree programs of Armstrong State College are presented in this catalog primarily by school, by department. The College is organized into three schools, each administered by a dean, and two non-school affiliated departments. The departmental structure of the College, and the balance of this Catalog, are presented below.

Department/Program	School
Developmental Studies	non-affiliated
Military Science	non-affiliated
Naval Science	Savannah State
General Studies	Arts and Sciences
Biology	Arts and Sciences
Chemistry/Physics	Arts and Sciences
Fine Arts	Arts and Sciences
Government	Arts and Sciences
History	Arts and Sciences
Language, Literature, Dramatic Arts	Arts and Sciences
Mathematics and Computer Science	Arts and Sciences
Psychology	Arts and Sciences
Elementary and Middle School Education	Education
Physical Education	Education
Secondary and Special Education	Education
Associate Degree Nursing	Health Professions
Baccalaureate Degree Nursing	Health Professions
Dental Hygiene	Health Professions
Health Information Management	Health Professions
Health Science	Health Professions
Medical Technology	Health Professions
Radiologic Technologies	Health Professions
Respiratory Therapy	Health Professions

Developmental Studies

Faculty
Dandy, Evelyn, Department Head
Cottrell, Ellen
Geoffroy, Cynthia
Harris, Karl
Smith, Carolyn
Palmour, Mack, Counselor

The Department of Developmental Studies provides a program of compensatory education for students whose academic deficiencies may prevent successful completion of collegiate studies. Students may be placed in departmental courses on the basis of English Placement Test, Mathematics Diagnostic Test, or Regents Examination performances. Regularly admitted students may voluntarily enroll, subject to prerequisites, in any departmental courses. Conditionally admitted students must enroll in accordance with the stipulations of their admission (see the Conditional Admission section of this Catalog) and policies of the Developmental Studies program.

Those entitled to Veterans Administration educational benefits may be certified for no more than 45 credit hours in departmental courses. At most, 15 hours may be certified in each of the English, mathematics, and reading areas.

OFFERINGS

DSE 098—Grammar Review (5-0-5)
Fall, Winter, Spring, Summer on Demand.
This course is for the student classified as conditionally admitted because of failure to satisfy minimum requirements in English. The student will work toward competence in sentence construction, placement of modifiers, determination of subject-verb agreement, and other troublesome grammatical basics.

DSE 099—Basic Composition (5-0-5)
Offered each quarter.
This course is for the student with difficulties in constructing and manipulating sentences within paragraphs and paragraphs within short themes.

DSM 098—Introductory Algebra (5-0-5)

This course offers a review of arithmetic integrated into an introductory algebra course. Topics include negative integers, simple polynomials, integer exponents, equations, word problems, factoring, some graphing, and simple radicals.

DSM 099—Intermediate Algebra (5-0-5)

Offered each quarter.

Prerequisite: A student must have attained one of the following prior to enrolling—(1) a score of at least 10 on the Mathematics Diagnostic Test or (2) a grade of P in MAT 098. Dates of the administration of the Mathematics Diagnostic Test appear in the Academic Calendar in this Catalog.

Topics include rational expressions, factoring of polynomials, linear and quadratic equations, graphs of linear functions, rational exponents, and radicals.

DSR 098—Reading Skills (5-0-5)

Fall, Winter, Spring, Summer on demand.

This course is appropriate for students experiencing difficulty in reading. Word attack skills, comprehension skills, and vocabulary building are stressed.

DSR 025—Developing Reading Maturity (5-0-5)

Offered each quarter.

This course is appropriate for students preparing for the Regents. Examination, for students undergoing remediation due to unsuccessful performance on the reading portion of the Regents Examination, and for students experiencing moderate difficulty in reading. Comprehension skills, vocabulary enrichment, test-taking strategies, and reading fluency are stressed.

DSS 099—Effective Study Techniques (1-2-2)

Offered on demand

The purpose of this course is development of systematic and efficient study habits for academic success. Special emphasis will be placed on time management listening skills, memory techniques, reading flexibility, note-taking systems, textbook mastery, and test-taking strategies.

Military Science

Faculty

Ross, Cynthia, Major, Department Head
Gahagan, Robert, Captain
Meredith, James, Captain

The Army Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC), Instructor Group, staffed by active Army personnel. The department provides a curriculum available to Armstrong State and Savannah State students under the cross-enrollment program that qualifies the college graduate for a commission as an officer in the U.S. Army, United States Army Reserve, or the United States Army National Guard. Qualifying for a commission adds an extra dimension to the student's employment capability in that, upon graduation from the college, the student has either military or civilian employment options.

The course of study offered in military science is designed not only to prepare both the student for service as a commissioned officer in the United States Army but also to provide knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the US. Army in national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advanced military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the advanced course are commissioned second lieutenants in the Unit-

ed States Army Reserve in the branch of service most appropriate to their interests and academic achievements, consistent with the needs of the Army. Regardless of the Branch selected, all officers will receive valuable experience in management, logistics and administration. Advanced course graduates will be commissioned and either called to active duty after graduation to serve for a period of three to six months or three years depending on the prevailing military requirements and circumstances. Graduates may be granted a delay in reporting for active duty for graduate study. A small number of outstanding students are designated distinguished military graduates and are offered commissions in the Regular Army each year.

Basic Military Science

Basic military science courses involve six quarters during the freshman and sophomore years. The student learns the organization and roles of the U.S. Army and acquires essential background knowledge of customs and traditions, weapons, map reading, tactics and communications. Equally important, these courses have the objective of developing the student's leadership, self-discipline, integrity and sense of responsibility.

Advanced Military Science

The general objective of this course of instruction is to produce junior officers who by education, training, attitude and inherent qualities are suitable for continued development as officers in the Army. There are two avenues available for the student to be eligible for entry into the advanced program and obtain a commission as a second lieutenant.

(a) satisfactory completion of, or placement credit for, the basic program at Armstrong State or at any other school, college or university offering basic ROTC and meeting the entrance and retention requirements established by the Army.

(b) be an active duty veteran or junior ROTC cadet graduate eligible for placement credit.

Placement

Veterans entering the military science programs will receive appropriate placement credit for their active military service. Students who have completed military science courses in military preparatory schools or junior colleges may be given appropriate credit. Students with at least three years of high school ROTC may also be granted placement credit. Placement credit or six quarters of basic military science, or the equivalent thereof, is a prerequisite to admission into the advanced program.

Alternate Programs for Admittance

Students with two years of coursework remaining, but who have not completed basic military science, are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete a basic summer camp of six weeks duration prior to entering the advanced program or must enroll in the condensed summer school phase of the basic course. This latter program consists of six, two-hour courses given during the summer quarter. A student may take other courses during this session. Upon successful completion of the military science courses, they will be placed in the advanced course. Students attending the basic camp at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return.

Advanced Summer Camp

Students contracting to pursue the advanced courses are required to attend advanced summer camp, normally between their junior and senior academic years at Fort Bragg, North Carolina. Students attending this camp are paid at active army rates and given travel allowance from their home to camp and return.

Financial Assistance

All advanced cadets are paid a subsistence allowance of $100 per month while enrolled in the advanced course.

Scholarship Program

Each year the U.S. Army awards one-, two- and three-year scholarships to outstanding young men and women participating in the Army ROTC program who desire careers as regular Army officers. The Army pays tuition, fees, books and laboratory expenses incurred by the scholarship student and, in addition, each student receives $100 per month for the academic year. Individuals desiring to compete for these scholarships should apply to the Army Military Science Department.

Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before

commissioning or upon disenrollment from the ROTC program.

MIL Courses

The basic course of six quarters duration consists of two hours of classroom work per week. In the classroom, the student acquires knowledge of military organization, weapons, tactics, basic military skills, history and customs. In field training exercises, potential for leadership is progressively developed.

The advanced course consists of three hours of classroom work per week for two quarters in the third and fourth years. During the spring quarter prior to advanced camp the student will enroll in MIL 303 to prepare for attendance at Advanced Camp. This two-year course is normally taken during the third year. HIS 357 (American Military History) is normally taken spring quarter of the third year but with permission of department can be taken during second or fourth year. One quarter of the senior year must include an elective approved by the Military Science Department. The coursework during the advanced course emphasizes techniques and management and leadership and the fundamentals and dynamics of the military team. Field training exercises provide the student with applied leadership experiences.

Minor Concentration

The department offers a minor in Military Science. The program is designed to prepare the student for a commission in the United States Army and is offered to, but not required of, those students participating in the advanced course of Army ROTC instruction. Whatever the major, a Military Science minor will strengthen the student's management, leadership, and interpersonal communication skills. The minor requires:

Fourteen credit hours with grades of "C" or better in the following upper division military science courses: 301, 302, 303, 401, 402; HIS 357 and five additional credit hours of coursework approved by the department.

OFFERINGS

MIL 101—Army Organization (1-1-2)

A study of the U.S. Army and the ROTC Organization.

MIL 102—Basic Weapons and Military Skills (1-1-2)

A study of characteristics of basic military weapons, the principles and fundamentals of rifle markmanship, the elements of first aid, and the employment of individual camouflage, cover, concealment and field fortifications.

MIL 103—Basic Survival (2-0-2)

A study and practical exercise introducing military techniques used to sustain human life when separated from logistical support.

MIL 104—Basic Military Skills (1-1-2)

Prerequisite: MIL 102, or approval of Department Head.

A study of the basic military skills essential to the contemporary soldier with emphasis on individual training in first aid, intelligence information and field preparedness. Chemical, biological and nuclear operations on the modern battlefield.

MIL 201—Map and Aerial Photograph Reading (1-1-2)

Prerequisite: MIL 102, 104, or approval of Department Head.

A study of basic map reading as applied by the small unit leader.

MIL 202—Basic Tactics and Operations (1-1-2)

Prerequisite: MIL 102, 104, 201, or approval of Department Head.

A study of small unit tactics, operations and troop leading procedures to include the combined arms teams to the platoon with primary interest on the rifle squad.

MIL 203—Mountaineering Techniques (2-0-2)

A study and practical exercise introducing the fundamentals of mountain climbing and rappeling. Proper knot tying and safety procedures are emphasized. Acceptable as P.E. requirement.

MIL 204—Military Communications (1-1-2)

A study of military communications procedures to include terminology, security, electronic warfare and preparation of military correspondence.

MIL 205—The Threat (2-0-2)

A study of the organization, tactics, and equipment of threat forces. Major emphasis is placed on the tactics used in Western Europe.

MIL 206—Basic Self-Defense I (0-2-1)
A Basic Self-Defense course which provides a study of defensive philosophy, vulnerable areas of the body, exercises, kicks, strikes, throws, and arm bars. The course also includes basic self-defense strategy and practical exercises utilizing all of the techniques taught in the course. Acceptable as P.E. requirement.

MIL 301—Leadership and Management I (3-1-3)
Prerequisite: Basic Course or equivalent and permission of the Department.
A study of the psychology of leadership, techniques of management, and methods of instruction to include practical application.

MIL 302—Fundamentals and Dynamics of the Military Team I (3-1-3)
Prerequisite: Basic Course or equivalent and permission of the Department.
A study of tactics applied at the platoon and company level to include a study of the modern battlefield and current military Tactical doctrine.

MIL 303—Leadership Seminar (2-1-2)
Prerequisite: MIL 301, 302
A series of seminars, laboratories and experiences to prepare the student for Advanced Summer Camp.

MIL 304—Military Skills Practicum (V-V-5)
Summer. Prerequisite: Military 303 and permission of Department.
The study and practical application of military skills and leadership ability during a six week encampment experience. Grading for this course will be done on a satisfactory, unsatisfactory basis. Instruction and evaluation is jointly accomplished by college staff and selected ROTC personnel assigned to 1st ROTC Region.

MIL 401—Fundamentals and Dynamics of the Military Team II (3-1-3)
Prerequisite: MIL 301, 302
A study of command and staff duties and responsibilities of the professional officer to include operations, intelligence, administration and logistics.

MIL 402—Leadership and Management (3-1-3)
Prerequisite: MIL 301, 302
A study of the military justice system and service orientation.

Naval ROTC Program

Faculty
Cdr. Edward Clark, USN, Department Head
Cdr. O. C. Fowler, USN
Capt. Oregon Emerson, USMC
Lt. Richard A. Bass, USN
Lt. Jimmy R. Middlebrook, USN
Lt. Bernard L. Jackson, USN
GYSGT. George H. Williams, USMC
QM1 A. Mason, USN

The NAVAL ROTC Program at Savannah State College is available to students at Armstrong State College who meet the requirements of the program and who desire to earn an appointment as a commissioned officer in the United States Navy or United States Marine Corps. ASC students will normally take Naval Science courses on the SSC campus; however, some courses may be taught on-campus contingent upon NROTC instructor availability and a minimum on-campus class enrollment of five students.

The Naval Reserve Officer's Training Corps academic program is an opportunity for students to combine their formal educational experience with their initial military training. While students are completing their degree requirements, they are earning a minor in Naval Science from ASC and preparing themselves for commission service as a regular or reserve officer in the Navy or Marine Corps.

In support of this purpose the basic and primary mission of the NROTC program is as follows:

> To develop Midshipmen morally, mentally and physically and to imbue them with the highest ideals of duty, honor and loyalty in order to commission college graduates as officers who possess a basic professional background, are motivated toward careers in the Naval Service and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship and government.

Naval Science Curriculum

	Hours
A. Basic Course of Instruction	15
NSC 101, 102, 104	8
NSC 201, 202, 204	7
(Basic course required for Navy and Marine Options)	
B. Navy Option — Advanced Course of Instruction	14
NSC 301, 302, 303, 304, 305, 306	9
NSC 401, 402, 403, 404, 405	5
C. Marine Option — Advanced Course of Instruction	12
NSC 301, 302, 303, 307, 308	
NSC 406, 407	
D. Specific Electives	40
#MAT 206, 207, 208	15
#Phy 217, 218, 219	15
*HIS 357	5
*POS 320	5
E. Additional Requirements	
NSC 450; Naval Drill (0-2-0) is required each quarter. It will complete two of the six hours of physical education required for graduation.	

#Required for Naval Option scholarship midshipmen; encouraged for others.

*Recommended for non-scholarship midshipmen and midshipmen not majoring in one of the following areas: Math, Physics, Computer Science, Engineering, or Chemistry.

Comprehensive Examination

An NROTC standardized comprehensive examination will be administered to all Navy option Senior Midshipmen in October of each year. The Midshipman is expected to demonstrate an adequate understanding of the common core of knowledge in Naval Science subjects such as naval engineering, weapons, navigation, tactics, and ship handling procedures.

Naval Science Offerings

NSC 101—Introduction to Naval Science I (2-0-2)

Fall, Spring.

An introductory course to the role of the Navy in national defense. The instruction places particular emphasis on the mission, organization, regulations, and broad warfare components of the Naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement, and retirement policies. The course also covers the basic tenets of Naval courtesy and customs, discipline, Naval leadership and ship's nomenclature.

NSC 102—Introduction to Naval Science II (1-0-1)

Winter.

An introductory course to the organization of the Naval service, the varied career opportunities available, long-held customs and traditions of Navy/Marine Corps men and women, and the duties of a Junior Officer in the Naval service. The student is made cognizant of the major challenges facing today's Naval officer, especially in the areas of equal opportunity and drug alcohol abuse.

NSC 104—Naval Ships System I (5-0-5)

Spring.

Introduces students to the types, structure and purpose of naval ships. Ship compartmentation, propulsion systems, auxiliary power systems, interior communications, ship operations, and ship stability characteristics are examined.

NSC 201 & 202—Seapower and Maritime Affair I & II (1-1-1)

Fall, Winter, Spring.

Introduces the student to naval seapower and maritime affairs. These courses are oriented toward the general concepts of seapower (including the merchant marine), the role of various components of the Navy in supporting the Navy's mission, the implementation of seapower as an instrument of national policy, and a comparative study of U.S. and Soviet naval strategies.

NSC 204—Naval Ships Systems II (5-0-5)

Winter.

Covers the theory and principles of operation of naval weapons systems. The course includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordinance.

NSC 301-303—Naval Seminar I, II & III (0-1-0)

Professional Naval training sessions stressing the development and application of leadership skills.

NSC 304-305—Navigation I & II (3-1-3)
Fall, Winter.
A comprehensive study of the theory, principles and procedures of ship navigation and movements. Navigation topics include mathematical analysis, spherical triangulation and practical work involving sight reduction, sextants, publications, and report logs. The concepts and mental skills relating to the use of relative motion, maneuvering board and the Rules of the Nautical Road for safe navigation — lights, signals, navigational aids and inertial systems, are also covered.

NSC 306—Naval Operations (3-1-3)
Spring. Prerequisite: NSC 305.
Operations topics include communications, sonar-radar search and screening theory. Tactical formations and dispositions, relative motion, maneuvering board and tactical plots are analyzed for force effectiveness and unity.

NSC 307-308—Evolution of Warfare I & II (3-0-3)
Fall, Winter.
Provides the student with a basic knowledge of the art and concepts of warfare, and its evolution from the beginning of recorded history to the present. Included within this study is a consideration of the influence that leadership, political, economic, sociological and technological development factors have had on warfare, and the influence they will continue to exert in the age of limited warfare.

NSC 309—Marine Corps Laboratory (0-3-0)
Spring.
A course for Marine Corps Option students which stresses the development of leadership, moral, and physical qualities necessary for service as Marine Corps officers. Practical laboratory exercises in mission and organization of the Marine Corps, duties of interior guards, introduction to military tactics, troop leading procedures, rifle squad weapons and theory of physical conditioning. Particular emphasis is given to a demanding progressive physical conditioning program. This course serves to prepare students for the Marine Corps Summer Training at Officer Candidate School (BULLDOG) between the junior and senior academic year.

NSC 401-403—Naval Operations Laboratory I, II, III (0-1-0)
Fall, Winter, Spring.
Practical laboratory exercises conducted in a dynamic, composite and time oriented fleet environment to develop and improve the surface operation skills of Navy option midshipmen.

NSC 404—Leadership and Management I (3-1-3)
Fall.
A course stressing the experiential approach to learning the principles of leadership and management. The student develops skills in the areas of communication, counseling, control, direction, management and leadership through active guided participation in dynamic case studies, experiential exercises and situational problems. Management theory, professional responsibility and the Navy Human Resources Management programs are emphasized.

NSC 405—Leadership and Management II (2-1-2)
Winter.
A course which will familiarize midshipmen with and develop an appreciation of the duties and responsibilities of the junior naval officer and division officer in the areas of Navy human resources management, and the personnel management, material management, and administration of division discipline. The course prepares the midshipman for the personal and professional responsibilities he will encounter immediately upon commissioning. This capstone course in the Naval Science curriculum builds upon and focuses the managerial and professional competencies developed during prior at sea training and naval science courses.

NSC 406-407—Amphibious Warfare I & II (3-0-3)
Fall, Winter.
The history of amphibious warfare is a tactical course that provides the general background for amphibious warfare operations. The course seeks to define the concept, explore its doctrinal origins and trace its evolution as an element of blue-water naval policy during the 20th century. While studying the overall development of amphibious doctrine, the student will explore several common case studies and simultaneously prepare an analytical study of one or more significant amphibious operations from recent history.

NSC 450—Naval Drill (0-2-0)
Fall, Winter, Spring.
Introduces the student to basic military for-

mations, movements, commands, courtesies and honors, and provides practice in unit leadership and management. Physical conditioning and training are provided to ensure students meet the minimum Navy/Marine Corps physical tests. Successful completion of at least two quarters of this course plus four hours of Physical Education Courses by NROTC Students will satisfy the College six hour Physical Education graduation requirement. This course is required each quarter of all NROTC Students.

School of Arts and Sciences

Adams, Joseph V., Dean

Goals and Objectives

The School of Arts and Sciences provides, by virtue of its professional staff, scholarly resources, and physical facilities, the opportunity for qualified students to obtain the best possible education attainable within the structure of a liberal baccalaureate program or through curricula leading to a specialized degree. The goals of the school are:

To acquaint all students, by means of a core curriculum in the liberal arts and sciences, with the diversity of the intellectual and cultural achievements of man;

To assist them in developing the skills necessary to think and to express themselves clearly and creatively;

To enable them to understand and assume their responsibilities as free men and women in a democratic society;

To provide a liberal baccalaureate education, supported by sound instruction, scholarly resources, and a commitment to free inquiry.

Organization and Degrees

The School of Arts and Sciences includes the Departments of Biology, Chemistry and Physics, Fine Arts, Government, History, Languages, Literature and Dramatic Arts, Mathematics and Computer Science, and Psychology. The following degree programs are offered by those departments:

- Associate in Arts
- Associate in Science in
  - Criminal Justice
- Bachelor of Arts with majors in:
  - Drama/Speech
  - English
  - History
  - Music
  - Political Science
  - Psychology
- Bachelor of General Studies
- Bachelor of Science with majors in:
  - Biology
  - Chemistry
  - Computer Science
  - Criminal Justice
  - Mathematical Sciences (Mathematics)
  - Mathematical Sciences (Applied Mathematics)
  - Mathematical Sciences (Computer Science)
  - Mathematical Sciences (Mathematics Education)
  - Physical Science

A student may combine with a major field of study one of the following minor concentrations offered by departments within the School of Arts and Sciences:

- American Civilization
- Anthropology
- Art
- Botany
- Chemistry
- Computer Science
- Criminal Justice
- Drama/Speech
- English
- Film
- Foreign Language
- History
- Journalism
- International Studies
- Linguistics
- Mental Health
- Museum/Preservation Studies
- Music
- Organizational Psychology
- Philosophy
- Physical Science
- Physics
- Political Science
- Psychology
- Public Administration
- Russian Studies
- Sociology
- Zoology

General Studies

Associate and baccalaureate degree programs in General Studies, emphasizing a lib-

eral arts education, are operated under the direction of the Dean of the School of Arts and Sciences. Curriculum guidance for these programs is provided by the General Studies Degree Committee (a committee of seven faculty members). Interested students should contact the office of the Dean of Arts and Sciences.

For the two-year degree of Associate in Arts, a student must complete at least 30 hours of the required course work and 45 quarter hours of all coursework in this program at Armstrong State College. The program is designed to provide a substantial liberal education as a base for upper division specialization.

Certain courses may be exempted by examination.

PROGRAM FOR THE DEGREE OF ASSOCIATE IN ARTS

Hours

A. General Requirements 63
   Area I 20
      1. ENG 101, 102 or 192, 201 or 292 15
      2. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
   AREA II 20
      1. Approved laboratory science sequence 10
      2. MAT 101 and 103 or 195 or 220 or 290 10
   Area III 20
      1. HIS 114 or 191 or 115; HIS 251 or 252 10
      2. POS 113 and one course selected from: ANT 201; ECO 201, 202; PSY 101; SEC 201 10
   AREA V 3
      1. PE 103 or 108 1
      2. Two activity courses 2

B. Courses in the Concentration and/or Electives 30
   These courses may be specified by a department or may be electives. Students planning work toward a baccalaureate degree should select courses that meet listed requirements of that degree program.

C. Regents' and Exit Examinations 0

TOTAL 93

PROGRAM FOR THE DEGREE OF BACHELOR OF GENERAL STUDIES

Hours

A. General Requirements 96
   Area I 20
      1. ENG 101, 102 or 192, 201 or 292 15
      2. One course selected from: ART 200, 271, 272, 273; ENG 222, MUS 200; PHI 200, 201 5
   Area II 20
      1. MAT 101 and 103 or 195 or 220 or 290 10
      2. Approved laboratory science sequence 10
   Area III 20
      1. HIS 114 or 191, 115 or 192; POS 113 15
      2. One course from: ANT 201; ECO 201, 202; PSY 101; SOC 201 5
   Area IV 30
      1. HIS 251 or 252 5
      2. Two courses selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201; two courses in any foreign language through the 200 level 10-15
      3. One or two courses selected from: ANT 201; CS 110, 115, 146; ECO 201, 202; PSY 101; SOC 201 5-10
      4. One or two courses selected from: AST 201; BIO 101, 102; BIO 121, 122; BOT 203, CHE 121, 122; CHE 128, 129; CHE 291, 292; CHE 281; GEL 201; MET 201; PHY 211, 212, 213; PHY 217, 218, 219; PHS 121, 122; ZOO 208, 209, 294 5-10
   Area V 6
      1. PE 103 or 108 and 117 or 211 3
      2. Three activity courses 3

NOTE: Certain preceding courses may be exempted by examination with credit awarded. Also, if a physical science sequence is used to satisfy Area II, then a biological science must be chosen in Area IV. The converse is also true.

   Other Requirements 96
      1. A minimum of 35 hours at the 300 level.
      2. A maximum of 40 hours in any one

discipline excluding courses taken under section A.

General Studies 30

Courses at the 200 or above level

1. Humanities..... 5-10
   American civilization, art, comparative literature, English or American literature, history, music, philosophy.
2. Social Sciences 5-10
   Anthropology, criminal justice, economics, geography, museum and preservation studies, political science, psychology, sociology.
3. Mathematics and Natural Sciences 5-10
   Astronomy, biology, botany, chemistry, entomology, geology, mathematics, meteorology, oceanography, physics, zoology.
4. Computer science, drama/speech, film, foreign languages, journalism, linguistics.

Area of Concentraton (Any college approved minor) 20-29

Electives..... 36-45

*Credit for special experience may be granted, at the discretion of the appropriate department; such credit, however, shall not exceed one-fourth of the total hours for the degree, and credit for courses not specifically listed in the College catalog under "Advanced Placement and Credit by Examination" shall not exceed ten hours.

5. Regents' and Exit Examinations .. 0

TOTAL 191

Biology

Faculty

Gottfried, Bradley, Department Head
Beumer, Ronald
Brower, Moonyean
Davenport, Leslie B., emeritus
Guillou, Laurent
Pingel, Allen
Thorne, Francis

The major in biology consists of BIO 101 or 111, BIO 102 or 112, BIO 201, BOT 203 or ZOO 204, and at least 40 quarter hours credit in biology courses (Botany, Zoology, etc.) numbered 300 or above. The majority of the courses in the major numbered 300 or above must be taken in the Biology Department at Armstrong State College.

Each student acquiring a major in biology must include in his program the following courses: BIO 370; BIO 480; BOT 410 or ZOO 410; one course in botany numbered 300 or above, other than BOT 410; and one course in zoology numbered 300 or above, other than ZOO 410. If credit for any of the first three required units is transferred to Armstrong from another college, the department may require that it be validated by examination.

In addition, biology majors must complete elementary statistics and the course sequence in organic chemistry (15 quarter hours). The course in general college physics (15 quarter hours) is strongly recommended and should be considered essential for those who expect to continue the study of biology beyond the B.S. degree.

To be admitted to courses in biology above the freshman level (those numbered 200 or above), the student must have completed the prerequisites for each with at least a grade of "C" for each prerequisite. To be eligible for a B.S. degree in biology the student must have a grade of at least "C" for all upper division courses (those numbered 300 or above) in biology.

Beginning students who have successfully completed strong courses in biology in high school are advised to take examinations for advanced placement or for credit for BIO 101 and/or 102. Arrangements to take these examinations may be made with the head of the department.

In order to receive Core Curriculum credits for the biology laboratory science sequence by taking biology in the Savannah State-Armstrong exchange program, a student must take the ENTIRE sequence of ten quarter hours either at Armstrong State College or at Savannah State College.

Students majoring in biology may concurrently complete all pre-medical, pre-dental, and/or pre-veterinary requirements and all requirements for secondary teaching certification in science (biology).

By careful use of electives a student majoring in biology may concurrently acquire a second major in chemistry (i.e., he may take a "double major"). This program is recommended for pre-professional students. It does require 10 to 20 quarter hours credit above the minimum required for graduation. Ask the department head for additional information.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

		Hours
A.	General Requirements	96
	Area I	20
	1. ENG 101, 102, 201	15
	2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
	Area II	20
	1. BIO 101 or 111; 102 or 112	10
	2. MAT 101 (or 103 or 206 if examination allows) and MAT 220	10
	Area III	20
	1. HIS 114, 115; POS 113	15
	2. One course from: ANT 201; ECO 201, 202; PSY 101, SOC 201	5
	Area IV	30
	1. CHE 128, 129; BIO 201; BOT 203 or ZOO 204	20
	2. Two courses from: natural sciences, Mathematics, foreign language	10
	Area V	6
	1. PE 103 or 108 and 117 or 211	3
	2. Three activity courses	3
	State Requirement: HIS 251 or 252	5
B.	Courses in the Major Field	40
	1. BIO 370, 480; BOT 410 or ZOO 410	15
	2. Electives at the 300-400 level selected from biology, botany, entomology, and zoology. Electives must include one BOT course other than BOT 410 and one ZOO course other than ZOO 410	25
C.	Courses in Related Fields	15
	CHE 341, 342, 343	15
D.	Electives	35
E.	Regents' and Exit Examinations	0
	TOTAL	191

SPECIAL NOTES:

(1) Biology majors should take BIO 101 or 111, BIO 102 or 112 and BIO 102 during the freshman year and BIO 201, and BOT 203, or ZOO 204 during the sophomore year. CHE 128 and 129 should be completed by the end of spring quarter of the sophomore year.

(2) The biology major should complete organic chemistry (CHE 341, 342, 343) no later than the end of the junior year as it is prerequisite or corequisite to all physiology courses.

(3) Students who may wish to enter graduate school are advised that PHY 211, 212, 213, and foreign language to third quarter proficiency should be considered essential.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY (with teacher certification)

		Hours
A.	General Requirements	96
	Area I	20
	1. ENG 101, 102, 201	15
	2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
	Area II	20
	1. MAT 101, 220	10
	2. BIO 101 or 111; 102 or 112	10
	Area III	20
	1. HIS 114, 115; POS 113	15
	2. PSY 101	6
	Area IV	30
	1. CHE 128, 129; PHY 211; MAT 103	20
	2. One course from: ANT 201; ECO 200, 201; SOC 201	5
	3. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200	5
	Area V	6
	1. PE 103 or 108 and 117 or 211	3
	2. Three activity courses	3
	State Requirement: HIS 251 or 252	5
B.	Courses in the Major Field	50
	1. BIO 201, 370, 480; BIO 203 or ZOO 204	20
	2. BOT 410 or ZOO 410	5
	3. Electives at the 300-400 level selected from botany and zoology	25

C. Courses in Related Fields 25
   1. CHE 341, 342, 343 15
   2. PHY 212, 213 10
D. Professional Sequence 40
   1. EDN 200; EDU 310, 335, 447, 481, 482, 483..... 35
   2. PSY 301 or EDU 302 5
E. Regents' and Exit Examinations..... 0

TOTAL 216

MINOR CONCENTRATIONS

The following minor concentrations are available from the Department of Biology. For minors, the student must earn a grade of "C" or completion of each of the better in each course offered for the minor.

The minors and their requirements are:

	Hours
Biology	25
1. BIO 101 or 111, 102 or 112	10
2. BIO electives of which at least 10 hours must be at 300-400 level	15
Botany	25
1. BIO 101 or 111, 102 or 112; BOT 203	
2. Two courses from: BOT 305, 323, 425	10
Zoology	25
1. BIO 101 or 111, 102 or 112; ZOO 204	
2. Two courses selected from: ENT 301; ZOO 325, 355, 356, 372, 425	10

OFFERINGS

Biology Offerings

BIO 101—Principles of Biology I (4-3-5)

Offered each quarter. Prerequisite: none.

Structure and function of cells, biological chemistry; structure, function, and development of flowering plants.

BIO 102—Principles of Biology II (4-3-5)

Offered each quarter. Prerequisite: Biology 101.

Structure, function, and development of vertebrate animals; genetics; ecology; evolution.

BIO 111—Advanced Introductory Biology I (4-3-5)

Prerequisites: Eligibility for ENG 101 and MAT 101.

Structure, function and development of plants, cells, tissues, organs, reproduction, genetics, phylogeny and ecology. This course, while similar in format to Biology 101, is presented at a level involving greater topical detail and more student interaction than in the traditional course. Some field work is required.

BIO 112—Advanced Introductory Biology II (4-3-5)

Prerequisites: BIO 101 or 111.

Structure, function and development of animals: cells, tissues, organs, reproduction, genetics, ecological systems and organic evolution. This course is a continuation of BIO 101 or BIO 111 and will involve independent student activities in the lab. Some field work is required.

BIO 201—Structure and Function of Cells (3-4-5)

Prerequisites: BIO 102 or 112.

An introduction to cell biology including the study of cell ultrastructure, the major physiological processes, cell reproduction and cell differentiation.

BIO/PHY 205—Radiation Biology (4-3-5)

Prerequisite: PHY 213 or 218 or 202, and a two-quarter sequence in anatomy and physiology or general biology.

Sources, propagation, and interactions of ionizing radiation and its biological effect. (Credit may not be applied toward a major in biology or in chemistry).

BIO 210—Microorganisms and Disease (4-3-5)

Winter. Prerequisites: CHE 201 or 122 and ZOO 209.

An introduction to the study of microorganisms with primary emphasis on bacteria. The morphology, life history, and importance to public health of representative bacteria, fungi, viruses, and protozoa are considered. Credit for this course may not be applied toward a major in biology.

BIO 310—Man and the Environment (5-0-5)

Prerequisite: Completion of 75 quarter hours credit in college courses.

Consideration of the interactions between humans and the support systems of the earth which are essential to their existence. Credit for this course may not be applied toward a major in biology.

BIO 351—Bacteriology (3-4-5)
Fall. Prerequisites: 10 hours of biological science, CHE 128-129.

A study of the morphology, ecology, classification, and genetics of the bacteria and related micro-organisms, including the viruses.

BIO 352—Medical Microbiology (3-6-6)
Prerequisite: BIO 351 and permission of the instructor.

A comprehensive study of the disease-causing microbes in terms of their diagnosis, pathology, and epidemiology.

BIO 353—Immunology and Serology (3-4-5)
Prerequisites: CHE 128 and 129 or permission of instructor and department head.

A fundamental study of humoral and cellular immunity, the structure and biosynthesis of antibodies, and the interactions between antigens and antibodies. Consideration will be given to allergic states and other immunological diseases.

BIO 354—Morphologic Hematology (3-4-5)
Prerequisites: BIO 102 and CHE 129.

Cytology of normal and pathologic human blood and bone marrow with emphasis upon antigenic determination in blood banking.

BIO 358—Histological Technique (0-10-5)
Winter. Prerequisites: BIO 101 or 111, and BIO 102 or 112.

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant and animal materials for study.

BIO 370—Genetics (3-4-5)
Winter. Prerequisites: BIO 101 or 111, BIO 102 or 112, CHE 128, 129; BIO 351 and junior status recommended.

An introduction to the principles of biological inheritance.

BIO 380—Human Genetics (5-0-5)
Prerequisites: BIO 101-102 or ZOO 208-209 and CHE 128-129 or CHE 201-202, or CHE 121-122.

An introduction to human inheritance including gene transmission, gene effects upon metabolism, population and quantitative genetics, genetics of sex-determination, pedigree analysis, eugenics, and genetic screening and counseling.

BIO 410—Cellular Physiology (3-4-5)
Offered on demand. Prerequisites: At least third quarter junior status; two courses in biology numbered 300 or above; and organic chemistry.

A consideration of the functional relationships between microscopic anatomy and cell chemistry, emphasizing permeability, metabolism, and growth.

BIO 440—Cytology (2-6-5)
Winter. Prerequisite: Two courses in biology numbered 300 or above.

The study of cells, their cytoplasm and nuclei, growth, differentiation, and reproduction.

BIO 450—Evolution (5-0-5)
Winter. Prerequisite: Major in biology (at least 15 qtr. hrs. credit in biology courses numbered 300 or above).

Modern concepts in organic evolution.

BIO 480—General Ecology (3-4-5)
Spring. Prerequisites: Three courses in biology numbered 300 or above.

A survey of the principles of ecology and their application to the welfare of humans, coordinated with a study of populations and communities in the field.

BIO 490—Research (V-V-(1-5))
Offered on demand. Prerequisites: At least 20 hours credit in biology courses numbered 300 or above; a B average in biology courses and in overall work; consent of department head; agreement of a staff member to supervise work.

Problems to be assigned and work directed by a member of the department. Supervised research including literature search, field and/or laboratory investigation and presentation of an acceptable written report of results. Credit will depend upon the work to be done. Both credit and proposed work must be approved in advance, in writing, by the faculty member to supervise the work and by the department head.

BIO 495, 496—Internship (V-V-(1-5))
Prerequisites: Junior standing and permission of the Department Head.

The student will be engaged in a biological project sponsored by an outside agency. The project will be selected, supervised, evaluated, and credit hours determined by the student's faculty advisor in consultation with the outside agency. The student must make application during the quarter preceding the internship. No more than 5 (five) hours may be counted toward major.

Botany Offerings

BOT 201—Principles of Horticulture (4-2-5)

Prerequisites: None.

Introduction to basic gardening principles with emphasis on plant growth and development as responses to varying environmental conditions. Topics to be covered include plant classification, growth and development, environment, propagation, disease and pest control. This course may be applied as elective credit towards the B.S. degree in biology.

BOT 203—Survey of the Plant Kingdom (3-4-5)

Spring, Fall. Prerequisites: BIO 101 or 111 and 102 or 112.

Morphology and phylogeny of the divisions of the plant kingdom, with emphasis upon the evolution of the land flora.

BOT 305—Identification of Flowering Plants (0-10-5)

Spring. Prerequisite: 15 quarter hours of biology.

Studies in the indentification of plants with emphasis on local flora.

BOT 323—Plant Anatomy (3-4-5)

Fall. Prerequisite: 15 quarter hours of biology.

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

BOT 410—Plant Physiology (3-4-5)

Spring. Prerequisites: 15 quarter hours of biology.

A survey of physiologic processes occurring in plants and the conditions which affect these processes.

BOT 425—Plant Morphology (3-4-5)

Offered on demand. Prerequisite: BOT 323.

Comparative studies of vascular plants with emphasis on form, structure, reproduction, and evolutionary relationships.

Entomology Offerings

ENT 301—Introductory Entomology (3-4-5)

Spring. Prerequisite: BIO 101 or 111 and 102 or 112.

An introduction to the study of insects—their structure, identification, and biology.

Zoology Offerings

ZOO 204—Survey of the Animal Kingdom (3-4-5)

Winter, Summer. Prerequisites: BIO 101, 102.

An evolutionary survey of the major animal phyla.

ZOO 208—Human Anatomy and Physiology I (4-2-5)

Offered each quarter.

A basic course considering the gross anatomy, histology, and physiology of the human organ systems. Intended primarily for majors in health sciences, credit for this course may not be applied toward a major in biology.

ZOO 209—Human Anatomy and Physiology II (4-2-5)

Offered each quarter. Prerequisites: ZOO 208 and CHE 201 or 122.

A continuation of the basic course considering the anatomy and physiology of the human. Credit may not be applied toward a major in biology.

ZOO 210—Functional Human Anatomy for Medical Radiographers (2-2-3)

Prerequisite: ZOO 208.

Detailed skeletal anatomy; gross systemic anatomy and histology, with functional highlights of circulatory, respiratory, digestive, excretory and reproductive systems. Intended primarily for majors in health science; credit for this course may not be applied toward a major in biology.

ZOO 211—Cardiopulmonary Anatomy and Physiology (2-2-3)

Prerequisite: ZOO 209.

The cardiopulmonary system is studied with special emphasis on functional anatomy. The physiology of the heartbeat, the control of circulation, respiration, and blood pressure, and partial movement across membranes will also be studied. Intended primarily for majors in health sciences; credit for this course may not be applied toward a major in biology.

ZOO 215—Human Physiology and Disease (4-3-5)

Prerequisites: ZOO 208 and 209 or other acceptable courses in human, general, or vertebrate physiology.

An introductory consideration of disease as disruption of physiological homeostasis. Initial emphasis is placed on normal function, con-

trol, and environment of cells as a basis for understanding cellular and systemic responses to agents of injury and organismic effects of those responses. Intended primarily for majors in health sciences.

ZOO 325—Invertebrate Zoology (3-4-5)

Spring. Prerequisite: ZOO 204.

A study of the structure, body functions, interrelations, and natural history of the major invertebrate groups.

ZOO 330—Fundamentals of Nutrition (5-0-5)

Prerequisites: BIO 101/111-102/112 or ZOO 208-209, and CHE 121-122 or CHE 201.

Biological bases of animal, including human, nutrition; sources and biological utilization and functions of nutrients.

ZOO 355—Embryology (4-3-5)

Fall. Prerequisites: BIO 101 or 111 and BIO 102 or 112.

An elementary course in embryology in which the chick is used to illustrate the basic principles of developmental anatomy.

ZOO 356—Comparative Anatomy of the Vertebrates (3-6-6)

Winter. Prerequisite: BIO 101 or 111 and BIO 102 or 112.

A study of the anatomy and evolution of the organ systems of the vertebrates.

ZOO 357—Animal Histology (3-4-5)

Winter. Prerequisite: BIO 101 or 111 and BIO 102 or 112.

A study of the tissues and their organization into organs and organ systems in animals.

ZOO 372—Parasitology (3-4-5)

Fall. Prerequisite: ZOO 204.

A comparative study of the internal and external parasites of man and other animals.

ZOO 410—General Vertebrate Physiology (3-4-5)

Fall. Prerequisites: Junior Status: Organic Chemistry (may be taken concurrently).

An introduction to the general physiologic processes of the vertebrates.

ZOO 425—Marine Invertebrate Zoology (2-6-5)

Spring. Even numbered years. Prerequisites: ZOO 325 or ZOO 204 with a grade of A or B.

Studies in the identification and ecologic distribution of marine invertebrates as exemplified by collection from the southeastern coastal region.

ZOO 429—Endocrinology (3-4-5)

Offered on demand. Prerequisites: ZOO 410 or other acceptable physiology course.

Physiology of the endocrine glands, their control of metabolism and reproductive cycles.

ZOO 435—Comparative Physiology (3-4-5)

Offered on demand. Prerequisites: Junior Status (Organic Chemistry may be taken concurrently).

Studies in various groups of animals of the functions of organ systems involved in the maintenance of homeostasis under varying conditions within normal habitats and of *in vitro* reactions of tissues and systems under laboratory conditions.

Marine Science Center Offerings

The following courses, offered at the Skidaway Island Marine Science Center, are cooperatively sponsored by ASC, GIT, GSC, GSU, and UGA. Five quarter hours of credit from these courses may be applied within the major in biology or as electives toward the BS in Biology degree.

BIO 430—Estuarine Ecology (6-6-5)

Summer (five weeks). Prerequisites: CHE 128, 129; ZOO 204; two courses in biology numbered 300 or above; or permission of instructor. MAT 104 recommended.

The evolution and development of estuaries, substrates, physical processes, communities, ecosystem functions, ecosystem dynamics and analysis. The study area will include the estuarine complex of the Carolinian province as exemplified along the coast of Georgia.

ZOO 405—Ichthyology (6-6-5)

Summer (five weeks). Prerequisites: ZOO 204 and one course in zoology numbered 300 or above, or permission of instructor.

The taxonomy, distribution, ecology, and evolution of fishes with special reference to the fishes of eastern North America.

Chemistry and Physics

Faculty

Harris, Henry, Department Head
Brewer, John
Jaynes, Leon
Johanning, Gary
Jones, Gerald
Robbins, Paul
Stratton, Cedric
Whiten, Morris

The department offers the Bachelor of Science with a major in chemistry, designed to give depth in the fields of chemistry, yet flexible enough to accommodate a range of career goals. Students majoring in chemistry may concurrently complete all pre-medical and/or pre-dental requirements and all requirements for secondary teaching certification in science (chemistry).

By careful use of electives a student majoring in chemistry may concurrently acquire a second major in biology (i.e. the student may take a "double major"). This program is recommended for pre-professional students. It does require 10 to 20 quarter hours credit above the minimum required for graduation.

The department participates in the Dual Degree Program of Armstrong State College and the Georgia Institute of Technology under which students may earn simultaneously the B.S. degree in chemistry from Armstrong and the Bachelor's degree from Georgia Tech in a related field, such as chemical engineering. Students interested in learning more about the chemistry degree program or any course offered by the department should contact the department head.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY

	Hours
A. General Requirements	101
Area I	20
ENG 101, 102, 201	15
One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
MAT 101, 103	10
PHY 211, 212 or 217*, 218*	10
Area III	20
HIS 114, 115	10
POS 113	5
One course selected from: ANT 201, ECO 201, 202; PSY 101; SOC 201	5
Area IV	30
CHE 128, 129, 281	15
MAT 206	5
PHY 213 or 219*	5
Computer Science or Mathematics or Natural Science	5
Area V	6
PE 211 and 103 or 108	3
Three activity courses	3
HIS 251 or 252	5
B. Major Field Requirements	45
CHE 341, 342, 343, 380, 491	25
CHE 492, 493 or CHE 481, 482, 483, 496	10
Approved 300-400 level Chemistry courses	10
C. Related Field Requirements	15
CS 110, 142, or 246	5
Additional courses in Computer Science, Mathematics, or Natural Sciences	10
D. Electives	30
E. Regents' and Exit Examinations	0
TOTAL	191

*Recommended sequence.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY (with teacher certification)

	Hours
A. General Requirements	101
Area I	20
ENG 101, 102, 201	15
One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
MAT 101, 103	10
CHE 128, 129	10
Area III	20
HIS 114, 115	10
POS 113	5
One course selected from: ANT 201, ECO 201, 202; SOC 201	5

Area IV 30
CHE 281 5
PHY 211, 212, or 217, 218 10
PSY 101 5
EDN 200 5
One course selected from: ART 200, 271, 272, 273; MUS 200; DRS 228 5
Area V 6
PE 117 and 103 or 108 3
Three activity courses 3
HIS 251 or 252 5
B. Major Field Requirements 45
CHE 341, 342, 343, 380, 491 25
CHE 492, 493 or CHE 481, 482, 483, 496 10
CHE 461 5
Approved 300-400 level Chemistry elective 5
C. Related Field Requirements 25
MAT 206 5
BIO 101, 102 10
PHY 213 or 219 5
One course selected from: AST 301; GEL 302; MET 303; OCE 301, 430; PHY 412 5
D. Profesional sequence 35
EDU 310, 335, 447, 481, 482, 483 30
PSY 301 or EDU 302 5
E. Regents' Examination and Exit Examinations *0*
TOTAL 206

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICAL SCIENCES

	Hours
A. General Requirements	96
Area I	20
ENG 101, 102, 201	15
One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
MAT 101, 103	10
CHE 128, 129	10
Area III	20
HIS 114, 115; POS 113	15
One course selectd from: ANT 201' ECO 201, 202; PSY 101; SOC 201	5
Area IV	30
PHY 211, 212, 213 or PHY 217, 218, 219	15
MAT 206, 207, 208	15
Area V	6
PE 211 and 103 or 108	3
Three activity courses	3
B. Major Field Requirements	45
PHY 412	5
Ten hours chosen from: AST, GEL, MET, OCE	10
Thirty hours selected from (to include maximum 15 CHE hours)	30
300-400 level CHE courses	
300-400 level PHY courses	
C. Related Field Requirements	25
CS 146	5
CS or MAT	20
D. Electives	30
E. Regents' and Exit Examinations	0
TOTAL	196

MINOR CONCENTRATIONS

The minor in Chemistry requires twenty credit hours with grades of "C" or better in upper division chemistry courses.

The minor in Physics requires twenty-three credit hours from courses designated as physics numbered 211 or higher. A grade of "C" or better in each course is required.

The minor in Physical Science requires ten credit hours of a laboratory sequence in chemistry, physical science, or physics plus fifteen hours chosen from: AST 301, CHE 301, GEL 302, OCE 301, MET 303. A grade of "C" or better is required in each course.

The Engineering Studies Program

A selection of basic engineering courses is offered at Armstrong State College to facilitate the transfer of students into engineering programs. By choosing appropriate courses at Armstrong, a student may be able to complete a baccalaureate engineering program in fewer than two academic years of residence at an engineering school.

All core curriculum and basic engineering courses may be taken at ASC. This program of courses has been constructed and designed with full cooperation and counsel from The Georgia Institute of Technology.

OFFERINGS

Chemistry Offerings

CHE 121-122—Introduction to Chemistry (4-3-5)

Prerequisite or corequisite: MAT 101. (Credit in these courses may not be applied to a major in chemistry.)

These courses include a study of the fundamental laws and theories of inorganic chemistry, a survey of organic chemistry, and an introduction to biochemistry.

CHE 128-129—General Chemistry (4-3-5)

Prerequisite: College Algebra or concurrently. Offered each quarter.

These courses are the first two of the series 128, 129, 281 required to complete an academic year of General Chemistry. A study of the fundamental principles and laws of chemistry with a quantitative approach to the subject. These courses are designed for the science, pre-medical and engineering student. The laboratory work includes an understanding of fundamental techniques.

CHE 201—Essentials of General Chemistry (5-0-5)

Offered each quarter.

An introduction to inorganic, organic, and biochemistry with emphasis on applications in human physiology and clinical chemistry. Experimental principles will be illustrated with classroom demonstrations.

CHE 202—Physical Principles (4-3-5)

Prerequisite: CHE 201.

This course provides a study of the physical principles of gas behavior, acid-base calculations, weak acid ionization, buffer solutions, pH measurements, blood gas measurements, and other subjects of special interest to persons in allied health sciences.

CHE 281—Qualitative Analysis (3-6-5)

Prerequisite: CHE 129. Fall and Spring.

This course is the third of the series 128, 129, 281 required to complete an academic year of General Chemistry. Study of ionic equilibria and separation methods. Homogeneous solutions involving dissociation, hydrolysis and buffer action, and heterogeneous systems showing the influence of pH and complexation on solubility are illustrated. Various chemical and chromatographic techniques are used as a basis for qualitative analysis.

CHE 301—The Chemistry of Life (5-0-5)

Prerequisite: Ten quarter hours of laboratory science completed. Offered on demand.

An introductory course covering selected areas of applied biochemistry. This course is not recommended for chemistry, biology, or premedical students.

CHE 307—Principles of Chemical Processes (3-0-3)

Prerequisites: CHE 129 and MAT 206.

Methods of material balance in chemical process are studied. Topic subjects include processes and process variables, systems of units, gas behavior, single-phase and multiphase systems. TEXT: Level of Felder and Rousseau *Elementary Principles of Chemical Processes.*

CHE 308—Principles of Chemical Processes II (3-0-3)

Prerequisite: CHE 307.

Methods of energy balance in chemical processes are studied. Various forms of energy changes involved in both reactive and nonreactive processes are introduced. Emphasis is placed on the application of combined material and energy balances in processes. TEXT: Level of Felder and Rousseau *Elementary Principles of Chemical Processes.*

CHE 341-342—Organic Chemistry (4-3-5)

Prerequisite: Chemistry 129. Fall, Winter.

These courses include the study of aliphatics, aromatic hydrocarbons and their derivatives, polyfunctional compounds, and polynuclear hydrocarbons. Organic reactions are emphasized in terms of modern theory.

CHE 343—Organic Chemistry (4-3-5)

Prerequisite: Chemistry 342. Spring.

A continuation of the organic chemistry sequence 341, 342. This course completes the fundamental study of organic chemistry with a consideration of carbohydrates, amino acids, and heterocyclics with their related compounds.

CHE 350—Chemical Literature (2-0-2)

Prerequisite: Chemistry 342. Offered on demand.

A study of the use of the chemical library and the important journals, references, and information sources.

CHE 380—Quantitative Instrumental Analysis (2-9-5)

Prerequisite: Chemistry 281. Winter, Summe

A study of the principles of gravimetric, volumetric, spectrophotometric, and electrometric methods of analysis. The laboratory will provide practice in techniques and application of these principles.

CHE 397—Scientific Glass-Blowing (0-4-2)

Prerequisite: Permission of the Instructor. Offered on demand.

Properties of glass for scientific apparatus; introduction of glass working equipment; planning of sequential joining operations; demonstration of major techniques for joining and working glass; supervision of individual students in preparing testpieces.

CHE 410—Chemical Safety (3-0-3)

Prerequisite: CHE 341. Offered on demand.

Topic subjects will include standard laboratory safety practices, hazardous properties of chemicals, safety practices in the storage, use and disposal of chemicals, and government regulations.

CHE 421—Advanced Inorganic Chemistry (3-3-4)

Prerequisite: CHE 380. Offered on demand.

Selected topics in inorganic chemistry tending to increase students' understanding of mechanisms of chemical reactions. Emphasizes the periodicity of elements.

CHE 431-432—Seminar (3-0-3)

Prerequisite: CHE 343. Offered on demand.

Selected topics for group discussion.

CHE 441—Advanced Organic Chemistry (3-0-3)

Prerequisite: CHE 343. Spring.

A further study of important organic reactions emphasizing theories of reaction mechanism of organic chemistry.

CHE 448—Organic Qualitative Analysis (2-9-5)

Prerequisite: CHE 343. Offered on demand.

Systematic approach to the identification of organic compounds.

CHE 451—History of Chemistry (5-0-5)

Spring, odd years. Prerequisites: Junior standing and CHE 129.

The development of science surveyed from antiquity to the present. Emphasis is placed on the development of ideas, men who made significant contributions, evolution of chemical theories, and the modern social implications of science.

CHE 461—Biochemistry (5-0-5)

Prerequisite: CHE 343 Offered on demand

A study of the chemical nature of cellular constituents and cellular metabolism. Subject topics include carbohydrates, proteins, lipids, enzymes, vitamins and coenzymes, anaerobic carbohydrate metabolism, lipid metabolism, the tricarboxylic acid cycle, oxidative phosphorylation, and photosynthesis.

CHE 462—Biochemistry (5-0-5)

Prerequisite: CHE 461. Offered on demand.

A study of the metabolism of ammonia and nitrogen-containing compounds, the biosynthesis of nucleic acids and proteins, metabolic regulation, and selected topics.

CHE 463—Clinical Chemistry (4-3-5)

Prerequisite: CHE 343. Offered on demand.

A study of the principles of chemistry applied in the clinical laboratory. Topic subjects to include instrumentation and microtechniques.

CHE 466—Biochemistry Laboratory (0-6-2)

Prerequisite or corequisite: CHE 461. Offered on demand.

A study of techniques used in biochemistry research. Topic subjects include separation, purification and characterization procedures.

CHE 481—Advanced Instrumental Analysis (1-3-2)

Prerequisite: CHE 380.

A study of electrometric methods of analysis. Topic subjects will include potentiometric, coulometric, and polarographic measurements.

CHE 482—Advanced Instrumental Analysis (1-3-2)

Prerequisites: CHE 380 and PHY 312.

A study of spectrophotometric and chromatographic methods of analysis. Topic subjects will include visible and ultra-violet spectroscopy, gas-liquid chromatography, high performance liquid chromatography, atomic emission and absorption spectroscopy.

CHE 483—Advanced Instrumental Analysis (1-3-2)

Prerequisites: CHE 342 and 482.

A continuation of the study of spectroscopy. Topic subjects will include infrared spectroscopy, nuclear magnetic resonance, electron-spin resonance and mass spectrometry.

CHE 491-492-493—Physical Chemistry (4-3-5)

Prerequisites: CHE 380, PHY 213, MAT 206. Fall, Winter, Spring.

Fundamental principles of physical chemistry including the study of solids, liquids, gases, thermochemistry, thermodynamics and solutions. These courses will also cover a study of chemical equilibria, chemical kinetics, electrochemistry, colloids, quantum mechanics and nuclear chemistry.

CHE 496—Internship (V-V(1-12))

Offered by special arrangement. Prerequisites: CHE 343, 380, 491 and permission of the Chemistry Intern Program Director.

The student will pursue a meaningful project in industry, government or other institutional setting. The project will be determined, supervised, and evaluated by the sponsor of the activity and the student's faculty adviser. Application and arrangement must be made through the department by mid-quarter preceding the quarter of internship. Open to transient students only with permission of the Dean of the Faculty at Armstrong and the appropriate official of the school from which the student comes.

CHE 497-498-499—Independent Study (V-V-(1-5))

Prerequisite: Consent of the Head of the Department. Offered each quarter.

Designed to permit qualified students to pursue supervised individual research or study. Emphasis will be placed on the literature search, laboratory experimentation, and presentation of an acceptable written report. Both the credit and proposed work must be approved in writing by the faculty member who will supervise the work and by the department head. Open to transient students only with the permission of the Dean of the Faculty at Armstrong and of the college from which the student comes.

Engineering Offerings

EGR 100—Introduction to Engineering (3-0-3)

Prerequisite: Eligibility to enter MAT 101 and ENG 101. A comprehensive orientation of the engineering process from problem formulation to the evolution of creative design; fundamental concepts from various fields of engineering.

EGR 170—Engineering Graphics I (2-3-3)

Prerequisite: MAT 103. Communication using orthographic projection, reading and writing the graphic language both with instruments and through free-hand sketching, pictorials, auxiliaries, dimensioning, geometric construction and lettering.

EGR 171—Engineering Graphics II (2-3-3)

Prerequisite: EGR 170.

Space visualization of points, lines, and planes; graphical analysis of engineering problems; fundamentals of computer-aided design; working drawings related to specialized engineering fields.

EGR 220—Engineering Mechanics I: Statics (5-0-5)

Prerequisites: PHY 217 and MAT 207.

Concepts of forces, moments, and other vector quantities; analysis of two-and-three-dimensional force systems; conditions of equilibrium; friction; centroids and moments of inertia.

EGR 221—Engineering Mechanics II: Dynamics (5-0-5)

Prerequisites: EGR 220 and MAT 208.

Kinematics of particles and rigid bodies; kinetics of particles and rigid bodies using force-mass-acceleration, work-energy, and momentum methods in two-and-three-dimensional motion.

EGR 322—Engineering Mechanics III: Mechanics of Materials (5-0-5)

Prerequisite: EGR 220.

Internal effects and dimension changes of solids resulting from externally applied loads; shear and bending moment diagrams; analysis of stress and strain; beam deflection; column stability.

EGR 310—Electrical Circuit Analysis (5-0-5)

Prerequisite: PHY 218. Prerequisite or Corequisite: MAT 341.

Basic laws of electrical circuits: RCL circuits, nodal and mesh analysis; Thevenin's and Norton's theorems; phasors, magnetically coupled circuits, and two-port parameters.

EGR 311—Electronics I (5-3-6)

Prerequisite: EGR 310.

Introduction to P-N junction theory and the concepts of solid-state devices; development of the electrical characteristics of diodes and transistors; bipolar and field-effect amplifying

circuits; operational amplifiers and analog systems.

EGR 312—Electronics II (2-6-4)
Prerequisite: EGR 311.
Operation and application of integrated circuits used in digital systems; gates, flip-flops, counters, registers and memory devices.

EGR 323—Fluid Mechanics (5-0-5)
Prerequisites: EGR 221, EGR 330, and MAT 341.
Fluid Statics; analysis of fluid motion using the continuity, momentum, and energy conservation relationships; introduction to viscous flows.

EGR 330—Thermodynamics I (5-0-5)
Prerequisites: PHY 217 and MAT 208.
Basic concepts of thermodynamics; properties of substances; conservation principles; the first and second laws of thermodynamics; entropy; analysis of thermodynamic systems.

EGR 331—Thermodynamics II (5-0-5)
Prerequisite: EGR 330.
Gas cycles; vapor cycles; thermodynamic relationships; thermodynamic behavior of real gases; non-reacting gas mixtures; thermodynamics of chemical reactions.

EGR 332—Heat Transfer (5-0-5)
Prerequisite: EGR 323.
The fundamental principle of heat transfer; steady and transient conduction in solids; introduction to convective heat transfer; thermal radiation.

EGR 350—Computer Applications in Engineering (2-3-3)
Prerequisites: CS 246, EGR 221, EGR 310, EGR 323.
The application of digital computers to the solution of selected engineering problems using FORTRAN; emphasis on problem analysis and solution techniques.

EGR 370—Engineering Economic Analysis (3-0-3)
Prerequisites: MAT 206 and ECO 202.
Fundamental principles and basic techniques of economic analysis of engineering projects including economic measure of effectiveness; time value of money, cost estimation, breakeven and replacement analysis.

EGR 396—Engineering Internship (V-V(1-12))
Prerequisites: EGR 171, EGR 322, and permission of the Engineering Intern Program Director.
The student will pursue a meaningful project in industry or government. The project will be determined, supervised, and evaluated by the sponsor of the activity and the Engineering Intern Program Director. Application and arrangement must be made through the department by mid-quarter preceding the quarter of internship.

Physical Science Offerings

AST 301—Introduction to Astronomy (5-0-5)
Prerequisite: Ten quarter hours of laboratory science completed. Winter.
A study of the planetary system, stars, stellar structure, and cosmology.

GEL 302—Principles of Geology (5-0-5)
Prerequisite: Ten quarter hours of a laboratory science completed. Fall.
An introduction of physical and historical geology. A study of the origin, evolution, and structure of the earth's crust, and geologic history.

MET 303—Principles of Meteorology (5-0-5)
Prerequisites: Ten quarter hours of laboratory science completed. Spring.
An introduction to the description of the state of the atmosphere and to the physical laws that describe atmospheric phenomena.

OCE 301—Principles of Oceanography (5-0-5)
Prerequisite: Ten quarter hours of a laboratory science completed. Offered on demand.
A study of the basic principles of oceanography. Topic subjects to include the distribution of water over the earth, nature and relief of the ocean floors, tides and currents, chemical properties of sea water and constituents, and applications of oceanographic research.

PHS 121—Physical Environment (4-2-5)
Prerequisite: admission requirements. Offered each quarter.
An elementary study of the fundamental laws and concepts of physics and astronomy. This course is designed for non-science majors interested in a descriptive survey. The laboratory study is designed to supplement the study of theory.

PHS 122—Physical Environment (4-2-5)

Prerequisite: admission requirements. Offered each quarter.

An elementary study of the fundamental laws and theories of chemistry and geology. This is a descriptive course which includes the classification of elements, basic chemical reactions, and atomic structure designed for the non-science major. The laboratory study includes experiences which augment class discussion.

Physics Offerings

PHY 201-202—Radiation Physics (3-2-4)

Prerequisite or corequisite: MAT 101.

These courses deal with the basic concepts involved in production, propagation, and detection of electromagnetic radiation. Particular emphasis will be given to mechanisms describing the interaction of X-Rays with matter, radiation protection, photographic detection, dosimetry, and circuitry.

PHY/BIO 205—Radiation Biology (4-3-5)

Prerequisites: PHY 213 or 218 or 202, and two quarter sequence in anatomy and physiology or general biology.

Sources, propagation, and interactions of ionizing radiation and its biological effect. (Credit may not be applied toward a major in biology or in chemistry.)

PHY 211—Mechanics (4-2-5)

Prerequisite: MAT 103. Fall.

The first part of the sequence PHY 211-212-213 in general physics. Basic classical physics, including mechanics, sound, and heat. Designed for students with aptitude in mathematics below the level of calculus. Selected experiments to demonstrate applications.

PHY 212—Electricity, Magnetism, Basic Light (4-2-5)

Prerequisites: MAT 103 and PHY 211. Winter.

The second part of the sequence PHY 211-212-213. Basic electricity, magnetism, and geometrical optics.

PHY 213—Light Phenomena, Modern Physics (4-2-5)

Prerequisites: MAT 103 and PHY 212. Spring.

The last part of the sequence PHY 211-212-213. Continues the study of light from the viewpoint of physical optics, and concludes with the study of atomic and nuclear physics. Laboratory work includes two selected experiments of advanced scope.

PHY 217—Mechanics (5-3-6)

Prerequisite: MAT 206, or concurrently. Fall.

The first part of the sequence PHY 217-218-219 in general physics. Basic classical physics, including mechanics, sound and heat. Designed especially for engineering students and recommended for science majors. Selected experiments to demonstrate applications.

PHY 218—Electricity, Magnetism, Basic Light (5-3-6)

Prerequisites: MAT 206 and PHY 217. Winter.

The second part of the sequence PHY 217-218-219. Basic electricity, magnetism, and geometrical optics.

PHY 219—Light Phenomena, Modern Physics (5-3-6)

Prerequisites: MAT 206 and PHY 218. Spring.

The last part of the sequence PHY 217-218-219. Continues the study of light from the viewpoint of physical optics, and concludes with the study of atomic and nuclear physics. Laboratory work includes two selected experiments of advanced scope.

PHY 312—Digital Electronics (3-6-5)

Prerequisites: Math 103 and ten quarter hours of laboratory science completed.

An introduction to discrete component and integrated circuits used in modern digital electronics. The primary objective of this course is to give students hands-on experience in constructing and investigating an array of digital circuits that are directly applicable in instrumentation. No credit will be allowed in this course for a person already having credit for PHY 412.

PHY 370—Thermodynamics (5-0-5)

Prerequisites: PHY 211 or 217, CHE 129, and MAT 208. Offered on demand.

An intermediate course which includes the fundamental principles of classical thermodynamics and kinetic theory with application to physical systems.

PHY 380—Introductory Quantum Mechanics (5-0-5)

Prerequisites: PHY 213 or PHY 219 and MAT 207. Offered on demand.

An introduction to quantum mechanical principles with applications in atomic and molecular structure.

PHY 412—Electronic Measurements for Scientists (3-6-5)

Prerequisite: PHY 212 or PHY 218.

Circuit theory and digital/analog electron-

ics dealing with measurements, control concepts and instruments that are used by experimental scientists.

PHY 417—Mechanics II (5-0-5)

Prerequisites: PHY 217 or 211 and MAT 207. PHY 218 or 212 and MAT 341 are recommended. Offered on demand.

Statics, kinematics, and dynamics of particles and of systems of particles are developed using Newtonian principles.

Marine Science Center Offerings

The following course, offered at the Skidaway Island Marine Science Center, is cooperatively sponsored by Armstrong State College, Georgia Institute of Technology, Georgia Southern College, Savannah State College, and the University of Georgia.

OCE 430—Applied Oceanography (6-4-5)

Prerequisites: CHE 128, 129; BIO 101, 102. Offered Summer Quarter.

The aspects of physical, chemical, and biological sciences which are marine oriented as applied to specific problems in the ocean and its environs. Collection and interpretaion of field data stressed, utilizing vessels and equipment of the Skidaway Institute of Oceanography.

Fine Arts

Faculty

Vacant, Department Head
Campbell, Michael
David, Marilee
Harris, Robert
Hough, Bonny
Schmidt, John

The Department of Fine Arts offers the Bachelor of Arts degree with majors in art and music, the Bachelor of Music Education degree, and in cooperation with the Department of Secondary Education, the Bachelor of Science in Education degree with a major in Art Education.

Placement Examinations

Transfer and new students in music must take placement examinations as appropriate in applied music, music theory, and music history. Acceptance of transfer credit towards graduation requirements in each area is contingent upon the results of the examination.

Transfer students in art will be required to take a placement examination in art history. Additionally, coursework at other institutions in studio art may not be counted towards graduation until a portfolio of artwork is submitted demonstrating competency in those areas in which classes have been completed.

Additional Requirements for Music Majors

There are a variety of departmental policies and regulations which affect music majors. Included are requirements for recital attendance, ensemble participation, piano proficiency, recital participation, applied music levels, and the Rising Junior Applied Music Examination. A copy of *A Handbook of Policies and Regulations for Music Majors* will be given to each music student.

Please see the "Fees" section of this catalog for information on applied music fees.

Directed Individual Studies (DIS)

Directed Individual Studies (DIS) have a distinctly useful place in the Fine Arts curriculum. The intent of the DIS is for an enrichment experience that otherwise is unavailable in the classroom. Normally, regular curriculum coursework should not be completed by individual study.

However, if a regular course is to be taught by individual study, the following criteria must be met before approval may be granted by the department head: 1) the course must not have been offered during the preceding three quarters nor be scheduled during the succeeding three quarters; 2) the student must gain the approval of the anticipated instructor; 3) transient students must gain the permission of not only the department head, but the dean of faculty, and of the college from which the student comes; and, 4) the student must demonstrate, in writing, that a hardship will exist if permission is denied, for the student to take an individual study.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN ART

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; PHI 200, 201; MUS 200, ART 271-273 may not be duplicated with major field requirements)	5
Area II	20
1. MAT 101 and 103 or 222 or 290	10
2. One of the sequences: BIO 101-102; CHE 121-122; 128-129; PHY 211, 212; 217-218; PHS 121-122	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, PSY 101, SOC 201	5
Area IV	30
1. ART 111, 112, 201, 202, 213	25
2. MUS 200 or 210	5
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	35
1. ART 313, 330, 340, 370, 413	25
2. Two from: ART 271, 272, 273 (may not be duplicated with Area I Requirements)	10
C. Special Course Requirements	20
1. Foreign language sequence through 103	15
2. PHI 400	5
D. Electives	40
E. Regents' and Exit Examinations	0
TOTAL	196

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN MUSIC

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101, 290	10
2. One of the sequences: BIO 121, 122; PHY 211, 212; PHS 121, 122	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, PSY 101	5
Area IV	30
1. MUS 111, 112, 113, 211, 212, 213	18
2. MUS 140, 240	12
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	30
1. MUS 281, 312, 340, 371, 372, 373	21
2. MUS 412, 440	9
C. Electives	35
1. Free Electives	26
2. One of the following concentrations completed in toto:	
A. Keyboard Performance—MUS 258, 425, 426, plus music electives	9
B. Vocal Performance—MUS 217, 218, and 5 hours from 414, 415, 416, 422	9
C. Theory/Composition—MUS 361, 411, and 480 or 481	9
D. Wind Instrument Performance—MUS 361 and 417 or 418 plus electives	9
D. Special course Requirements	25
1. ART 271, 272, 273 (may not be duplicated with Area I requirement)	10
2. Foreign language sequence through 103	15
3. RECITAL PEFORMANCES (determined by option)	0
E. Regents' and Exit Examinations	0
TOTAL	191

PROGRAM FOR THE DEGREE OF BACHELOR OF MUSIC EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101, 290	10
2. Laboratory Science Sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, SOC 201	5
Area IV	30
1. EDN 200; PSY 101	10
2. MUS 111, 112, 113, 140, 236, 281	20
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
b. Courses in the Major Field	64-65
1. MUS 211, 212, 213, 237, 238, 239	15
2: MUS 240, 340	12
3. MUS 312, 330, 331, 361, 412	17
4. MUS 371, 372, 373	9
5. One of the following concentrations completed in toto:	
A. Choral Emphasis—MUS 217, 218, 353, 423, 480	12
B. Instrumental Emphasis—MUS 227, 352, 424, 481 and 417 or 418 or 419	11
C. Keyboard Emphasis—MUS 227, 425, 426, and 352 or 353 and 480 or 481	11
C. Professional Sequence	30
1. EDN 310; EDU 335, 491, 492, 493	25
2. PSY 301 or EDU 302	5
D. Special Course Requirements	0
One half of senior recital	0
E. Regents' and Exit Examinations	0
TOTAL	195-196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF ART EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201	5
Area II	20
1. MAT 101, 290	10
2. Approved laboratory science sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201; ECO 201, 202; SOC 201	5
Area IV	30
1. EDN 200, PSY 101	10
2. ART 111, 112, 201, 213	20
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Teaching Concentraton	58-63
1. ART 202	5
2. ART 271, 272, 273**	10-15
3. ART 313, 330, 340, 350, 351, 370	30
4. Two courses from: ART 362, 363, 364	10
5. ART 400	3
C. Professional Sequence	35
1. EDN 310; EDU 335, 491, 492, 493	25
2. PSY 301 or EDU 302	5
D. Electives	0-5
E. Regents' and Exit Examinations	0
TOTAL	194

**May not be duplicated in Area I.

MINOR CONCENTRATIONS

Minor concentrations in art and in music are available through the Department of Fine Arts. The requirements of each are:

	Hours
Art	25
1. ART 111, 112	10
2. One course selected from: ART 271, 272, 273	5
3. Two courses selected from: ART 114, 201, 202, 211, 213, 214, 215, 330, 331, 340, 362, 363, 364, 370, 413	10
Music	29
1. MUS 111, 112, 113	9
2. Applied Music (six hours in one area)	6
3. Music Ensemble 251 or 254	6
4. Music History and Literature	8
5. MUS 000 (recital attendance	0

ASSOCIATE IN ARTS WITH CONCENTRATIONS

	HOURS
Concentration in Art	25
1. ART 111, 112	10
2. One course selected from: ART 271, 272, 273	5
3. Two courses selected from: ART 114, 201, 202, 211, 213, 214, 215, 330, 331, 340, 362, 363, 364, 370, 413	10
Concentration in Music	29
1. MUS 111, 112, 113	9
2. Applied Music (six hours in one area)	6
3. Music Ensemble 251, 254	6
4. Music History and Literature	8
5. Piano Proficiency	0
6. MUS 000 (Recital Attendance)	0

OFFERINGS

Art Offerings

Unless stated otherwise, courses are open to non-art majors.

ART 111—Basic Design I (4-2-5)
Fall.
An introduction to two-dimensional design and graphic communication.

ART 112—Basic Design II (4-2-5)
Winter. Prerequisite: A grade of "C" or better in Art III or permission of instructor.
The fundamentals of three-dimensional design introduced through sculptural projects in various media.

ART 114—Introduction to Photography (4-2-5)
Offered on demand.
Introduction to black and white photographic aesthetics and processes. Including study of the mechanical-optical functions of cameras and enlargers as well as printing and processing of film in a controlled environment.

ART 200—Introduction to the Visual Arts (5-0-5)
Offered on demand.
A study of artistic theories, styles, media and techniques and their application in masterworks of art from all ages. Not recommended for art majors.

ART 201—Painting I (4-2-5)
Winter. Prerequisite: A grade of "C" or higher in ART 111 or ART 213 or permission of the instructor.
A basic course in acrylic or oil painting from observed and secondary sources.

ART 202—Painting II (4-2-5)
Spring. Prerequisite: A grade of "C" or higher in ART 201 or permission of the instructor.
A continuation of Painting I with an increasing emphasis on student selected painting problems.

ART 211—Graphic Design (4-2-5)
Offered on demand.
Prerequisite: ART 111 or permission of the instructor.
The fundamentals of visual communication including design, layout, typography and reproduction as related to modern advertising techniques.

ART 213—Drawing I (4-2-5)
Winter.
A fundamental course emphasizing representational drawing from still-life, landscape, and figural form.

ART 214—Intermediate Photography (3-3-5)
Offered on demand.

Prerequisite: ART 114 or permission of the instructor.

A continuation of the study of the aesthetics and processes in black and white photography.

ART 215—Color Photography (3-3-5)
Offered on demand.

Prerequisite: ART 114, or permission of the instructor.

An introduction of the principles, aesthetics, and print processes of color photography.

ART 271—History of Art (5-0-5)
Fall.

A survey of the visual arts, painting, sculpture, and architecture, in Western Civilization from pre-history to the Late Middle Ages.

ART 272—History of Art II (5-0-5)
Winter.

Italian Renaissance through Rococo art.

ART 273—History of Art III (5-0-5)
Spring.

Modern Art, the late eighteenth through the twentieth centuries.

ART 313—Drawing II (4-2-5)
Spring.

Prerequisite: A grade of "C" or higher in ART 213 or permission of the instructor.

A continuation of Drawing I with emphasis on figuration, composition, and color.

ART 320—Art for the Elementary Teacher (4-2-5)
Fall.

A study, with studio experience, of materials and methods for teaching art at the elementary school level.

ART 330—Ceramics I (4-2-5)
Fall.

Fundamentals of hand-built stoneware pottery including pinch, coil and slab construction, glaze-making, kiln loading and firing. Additional experiences may include primitive firing or Raku.

ART 331—Ceramics II (4-2-5)
Winter.

Fundamentals of wheel-thrown pottery, plus a more intensive exploration of glazing and firing including Raku.

ART 333—Ceramic Sculpture (4-2-5)
Offered on demand.

Prerequisite: ART 330 or ART 331.

An exploration of the expressive capabilities of clay as a unique sculptural medium.

ART 340—Printmaking (4-2-5)
Offered on demand

Prerequisite: ART 111 or permission of the instructor.

An introduction to basic printmaking processes including linoleum, woodblock, and silkscreen.

ART 350—Art in the Lower School (4-2-5)
Fall. Prerequisite: Permission of the instructor. Art education majors only.

The analysis and evaluation of techniques and materials for teaching art in the elementary school.

ART 351—Art in the Middle and Upper School (4-2-5)
Winter. Prerequisite: Permission of the instructor. Art education majors only.

The analysis and evaluation of techniques and materials for teaching art in junior and senior high school.

ART 362—Enameling/Jewelry Making (4-2-5)
Offered on demand.

Introduction of process in the production of a variety of enameled art works, and of processes in the making of jewelry, both handmade and cast.

ART 363—Batik/Textile Design (4-2-5)
Offered on demand.

Exploration of a variety of processes used in applying original designs to fabric.

ART 364—Fibers Construction (4-2-5)
Offered on demand.

Development of processes used in on and off techniques in weaving and in contemporary fiber wall hangings.

ART 370—Sculpture (4-2-5)
Offered on demand. Prerequisite: ART 112.

The basic sculptural processes employing a variety of media. Emphasis on technical and formal aspects of three-dimensional expression.

ART 400—Seminar in Art Education (3-0-3)
Spring. Prerequisite: Permission of the instructor. Art education majors only.

A survey of current trends in instructional and research techniques.

ART 413—Drawing III (4-2-5)
Spring. Prerequisites: A grade of "C" or

higher in ART 313 or permission of instructor.

A continuation of Drawing II with increasingly complex problems in concept, design, and technique.

ART 490—Directed Individual Study (V-V-(1-5))

Prerequisite: See departmental statement.

ART 491—Internship (V-V-(1-4-5))

Offered by special arrangement. Prerequisite: Permission of instructor and department head and an overall grade point average of 2.5.

The student will pursue an individually designed course project involving off-campus study, work, and/or research. Projects usually encompass the entire academic quarter and are under the joint supervision of the sponsoring institution and his/her faculty supervisor.

Applied Music Offerings

Unless stated otherwise, courses are open to non-music majors.

MUS 130—Applied Music (one credit)

Prerequisite: Sufficient music background, determined by audition or MUS 110.

One twenty-five minute lesson per week in brass, organ, percussion, piano, strings, voice, or woodwinds. Applicable to a music degree only for a secondary applied credit. May be repeated for credit.

MUS 140—Applied Music (two credits)

Prerequisite: Open to music majors and a limited number of non-majors by audition only.

Private and class instruction in brass, organ, percussion, piano, strings, voice or woodwinds. May be repeated for credit.

MUS 240—Applied Music (two credits)

Prerequisite: Competency at the MUS 140 level as determined by jury examination. Music majors only.

Private and class instruction in brass, organ, percussion, piano, strings, voice or woodwinds. May be repeated for credit.

MUS 340—Applied Music (two credits)

Prerequisite: Successful completion of the Rising Junior Applied Music Examination. Music majors only.

Private and class instruction in brass, organ, percussion, piano, strings, voice or woodwinds. May be repeated for credit.

MUS 440—Applied Music (two credits)

Prerequisite: Competency at the MUS 340 level as determined by jury examination. Music majors only.

Private and class instruction in brass, organ, percussion, piano, strings, voice or woodwinds. May be repeated for credit.

Music Offerings

MUS 000—Recital Attendance (0-V-0)

A requirement for music majors and minors which consists of attendance at a designated number of concerts/recitals each quarter.

MUS 110—Basic Music Theory (3-0-3)

Spring.

An introduction to music theory for students needing skills for MUS 111. May not be used for credit toward a degree in music.

MUS 111—Elementary Theory I (3-2-3)

Fall. Prerequisite: MUS 110 or equivalent by examination.

An introduction to the basic theoretical principles of music including sightsinging, ear-training and keyboard harmony.

MUS 112—Elementary Theory II (3-2-3)

Winter. Prerequisite: A grade of "C" or higher in MUS III or permission of instructor.

A continuation of MUS 111 with emphasis on part-writing and diatonic material.

MUS 113—Elementary Theory III (3-2-3)

Spring. Prerequisite: A grade of "C" or higher in MUS 112 or permission of instructor.

A continuation of MUS 112 introducing seventh chords and diatonic modulation.

MUS 114—Jazz Improvisation I (2-0-2)

Offered on demand. Prerequisite: MUS 113 or permission of instructor.

Emphasis on basic jazz literature, chord symbol, melodic patterns, ear training, melodic concepts and analysis of improvised solos.

MUS 200—Introduction to Music Literature (5-0-5)

Fall, Winter, Spring.

A course designed to help the student understand music by means of analysis of style, forms, and media of musical expression.

MUS 201—Understanding Jazz (3-0-3)

Offered on demand.

A non-technical survey of jazz performers

and styles with emphasis on recorded literature. The course will examine elements of jazz such as improvisation, instrumentation and rhythm and trace their development from New Orleans to contemporary fusion music.

MUS 202—Survey of Rock Music (3-0-3)
Offered on demand.
A non-technical survey of rock music and its styles with emphasis on recorded literature.

MUS 203—Popular Music in 20th Century Ameria (3-0-3)
Offered on demand.
A survey of popular music from ragtime to present. Examination of popular music and its relationship to American culture.

MUS 211—Intermediate Theory I (3-2-3)
Fall. Prerequisite: A grade of "C" or higher in MUS 113 or permission of instructor.
A continuation of MUS 113 with emphasis on chromatic harmony.

MUS 212—Intermediate Theory II (3-2-3)
Winter. Prerequisite: A grade of "C" or higher in MUS 211 or permission of instructor.
A continuation of MUS 211.

MUS 213—Intermediate Theory III (3-2-3)
Spring. Prerequisite: A grade of "C" or higher in MUS 212 or permission of instructor.
A continuation of MUS 212 with emphasis on twentieth century techniques.

MUS 214—Jass Improvisation II (2-0-2)
Prerequisite: MUS 114 or permission of the instructor.
Emphasis on the analysis and performance of intermediate jazz literature and composition in contemporary styles.

MUS 217—Diction in Singing I (2-0-2)
Winter. Prerequisite: Music majors only.
A study of phonetics and pronunciation of the International Phonetic Alphabet, French, and German.

MUS 218—Diction in Singing II (2-0-2)
Spring. Prerequisite: MUS 217. Music majors only.
A study of the phonetics and pronunciation of Latin, Italian, and English.

MUS 224—Class Guitar (0-2-1)
Offered on demand.
Designed for the development of basic skills in playing the guitar for accompanying. Focuses on chorded styles and their application to music such as folk songs and popular music.

MUS 226—Class Piano I, II, III (0-2-1)
Offered on demand. Prerequisite: Permission of the instructor. Students enrolling in II or III must have received a grade of "C" or higher in the preceding class.
A study of keyboard techniques with emphasis on the skills needed to fulfill the piano proficiency requirement.

MUS 227—Class Voice (0-2-1)
Offered on demand. Prerequisite: Music major status or permission of the instructor.
A study of voice production techniques with practical application to standard song literature. Not open to students whose principal instrument is voice.

MUS 229—Class Recorder (0-2-1)
Offered on demand. Prerequisite: Permission of the instructor.
An introduction to playing the recorder. Basics covered include reading music notation, fingerings, and tone production.

MUS 236—Brass Methods (0-4-2)
Offered on demand. Music majors only.
An introduction to the principles of brass instrument performance and pedagogy.

MUS 237—Woodwind Methods (0-4-2)
Offered on demand. Music majors only.
An introduction to the principles of woodwind instrument performance and pedagogy.

MUS 238—Percussion Methods (0-4-2)
Offered on demand. Music majors only.
An introduction to the principles of percuscion instrument performance and pedagogy.

MUS 239—String Methods (0-4-2)
Offered on demand. Music majors only.
An introduction to the principles of string instrument performance and pedagogy.

MUS 250-Pep Band (0-2-1)
Fall, Winter. Open to qualified students.
A group to provide spirit music at school athletic functions. May be taken for academic credit, at most, four times.

MUS 251—Concert Band (0-2-1)
Open to qualified students.
Repertoire to be selected from the standard literature for symphonic band. Public performances are a part of the course requirement.

MUS 252—Jazz Ensemble (0-2-1)
Open to qualified students.
Repertoire to be selected from a variety of jazz styles and periods. Public performances are a part of the course requirement.

MUS 253—Armstrong Singers (0-2-1)
Membership open to all students by audition. Jazz Choir. Public performances are a part of the course requirement.

MUS 254—Concert Choir (0-3-1)
Membership open to all students. Ability to read music desired but not required. Repertoire to be selected each quarter from the standard choral concert literature. There will be public performances each quarter.

MUS 255—Chamber Ensemble (0-2-1)
Offered on demand.
Open to all qualified students in the performance media of brass, woodwind, string, keyboard, voice, and percussion instruments.

MUS 257—Opera Workshop (0-2-1)
Offered on demand.
Preparation and performance of work or excerpts of works from the operatic repertoire.

MUS 258—Keyboard Accompanying (1-2-2)
Offered on demand. Music majors only.
A study of the basic principles of accompaniment.

MUS 259—Oratorio Chorus (0-2-1)
Membership open to all.
Evening rehearsals. Literature to be selected from the larger choral works. Ability to read music not required. Public performances are part of the course requirement.

MUS 281—Conducting (3-0-3)
Fall. Prerequisite: MUS 113. Music majors only.
An introduction to the techniques of conducting and interpretation.

MUS 312—Form and Analysis (3-0-3)
Offered on demand. Prerequisite: MUS 213. Music majors only.
The study of the principles of form in music and techniques of harmonic analysis.

MUS 318—Music Fundamentals for the Elementary Teacher (2-0-2)
Offered alternate quarters.
A course in functional piano, music notation, scales, key signatures, and beginning ear-training and sight singing. Special attention is given to applying these elements to children's songs. Not open to music majors. May be exempted by examination with credit awarded.

MUS 319—Music Methods for the Elementary Teacher (3-0-3)
Offered alternate quarters. Prerequisite: MUS 318.
An introduction to music instructional materials for the elementary classroom teacher. Not open to music majors.

MUS 330—Music in the Lower School (4-0-4)
Winter. Music majors only.
A course for music majors emphasizing analysis and evaluation of techniques and materials for teaching music in the lower school.

MUS 331—Music in the Middle and Upper School (4-0-4)
Spring. Music majors only.
A course for music majors emphasizing analysis and evaluation of techniques and materials for teaching music in the middle and senior high schools.

MUS 352—Band Methods (2-0-2)
Offered on demand. Prerequisite: Music majors only.
A course dealing with the organization, maintenance and development of school instrumental ensembles.

MUS 353—Choral Methods (2-0-2)
Offered on demand. Prerequisite: MUS 227. Music majors only.
A course dealing with the organization and development of school choral organizations, problems of choral singing, and fundamentals of choral conducting.

MUS 361—Orchestration and Arranging (3-0-3)
Offered on demand. Prerequisite: MUS 213. Music majors only.
An introduction to the techniques of arranging and scoring for vocal and instrumental ensembles.

MUS 371—Music History I (3-0-3)
Offered on demand. Prerequisite: One year of music theory or permission of the instructor. Music majors only.
The history of music in Western Civilization from its origins through the Renaissance.

MUS 372—Music History II (3-0-3)
Offered on demand. Prerequisite: One year of music theory or permission of the instructor. Music majors only.
The history of music in Western Civilizaiton in the Baroque and Classic Periods.

MUS 373—Music History III (3-0-3)
Offered on demand. Prerequisite: MUS 213

or permission of the instructor. Music majors only.

The history of music in Western Civilization in the Romantic Period and in the 20th century.

MUS 411—Composition (V-V-5)

Offered on demand. Prerequisites: MUS 213, 312. Music majors only.

MUS 412—Counterpoint (3-0-3)

Offered on demand. Prerequisite: MUS 213. Music majors only.

A study of contrapuntal practices of 18th century music.

MUS 414—Song Literature I (2-0-2)

Offered on demand. Prerequisite: Music majors only.

A survey of German song literature.

MUS 415—Song Literature II (2-0-2)

Offered on demand. Prerequisite: Music majors only.

A survey of French song literature.

MUS 416—Song Literature III (2-0-2)

Offered on demand. Prerequisite: Music majors only.

A survey of the song literature of English, Italian and Russian music and others.

MUS 417—Repertoire and Pedagogical Techniques of Brass Instruments (2-0-2)

Offered on demand. Prerequisite: Junior status or permission of the instructor. Music majors only.

A survey of the literature and teaching techniques of the brass instruments.

MUS 418—Repertoire and Pedagogical Techniques of Woodwind Instruments. (2-0-2)

Offered on demand. Prerequisite: Junior status or permission of the instructor. Music majors only.

A survey of the literature and teaching techniques of the woodwind instruments.

MUS 419—Repertoire and Pedagogical Techniques of Percussion Instruments (2-0-2)

Offered on demand. Prerequisite: Junior status or permission of the instructor. Music majors only.

A survey of the literature and teaching techniques of the percussion instruments.

MUS 422—Opera Literature (5-0-5)

Offered on demand. Prerequisite: MUS 200 or permission of the instructor.

A study of operatic masterpieces from the origins of the form to the present.

MUS 423—Choral Repertoire (3-0-3)

Offered on demand. Prerequisite: Junior status or permission of the instructor. Music majors only.

A survey of the literature of choral ensemble.

MUS 424—Band Repertoire (3-0-3)

Offered on demand. Prerequisite: Junior status or permission of the instructor. Music majors only.

A survey of the literature of band and wind ensemble.

MUS 425—Piano Pedagogy (3-0-3)

Offered on demand. Prerequisite: Music majors only.

A study of pedagogical techniques of the piano and a survey of literature suited for teaching purposes.

MUS 426—Piano Literature (2-0-2)

Offered on demand. Prerequisite: Music majors only.

An historical survey of the repertoire for piano.

MUS 427—Vocal Pedagogy (2-0-2)

Offered on demand.

A study of pedagogical techniques of the voice and a survey of literature suited for teaching purposes.

MUS 480—Advanced Choral Conducting (3-0-3)

Offered on demand. Prerequisites: MUS 281, 312, 361. Music majors only.

Advanced techniques for the choral conductor.

MUS 481—Advanced Instrumental Conducting (3-0-3)

Offered on demand. Prerequisites: MUS 281, 312, 261. Music majors only.

Advanced techniques for the instrumental conductor.

MUS 490—Directed Individual Study (V-V-(1-5))

Prerequisite: See departmental statement. Music majors only.

MUS 491—Internship (V-V-(1-5))

Offered by special arrangement. Prerequisite: Permission of instructor and department head and an overall grade point average of 2.5.

The student will pursue an individually designed course project involving off-campus

study, work, and/or research. Projects usually encompass the entire academic quarter and are under the joint supervision of the sponsoring institution and his/her faculty supervisor.

Government

Faculty

Megathlin, William; Department Head
Brown, George
Coyle, William
Ealy, Steven
Magnus, Robert
McCarthy, John
Murphy, Dennis
Newman, John
Rhee, Steve

The Department of Government embraces the ideal of liberal education and views education in related professional areas as an extension of, rather than the antithesis of liberal education. Consequently, all Department programs and courses are conceptually-based, thereby enabling students to develop a theoretical sophistication applicable to practical realities. So conceived, courses and programs achieve curricular integrity.

The Department firmly believes that even curricular integrity is not enough, however. Instructional effectiveness is its inseparable complement, and attainment of these twin goals serves as the primary purpose of the Department of Government. The ongoing program of faculty development ensures that the staff of highly qualified educators—each selected for Department service on the basis of solid professional credentials—continually achieves that primary purpose.

In addition, the Department of Government highly values both research and service. To the extent of resources available, the Department encourages research by both faculty and students and service to the School of Arts and Sciences, the College and the community.

It is within the foregoing context that the Department of Government both requires the G.R.E. as an exit examination for its majors and offers the following undergraduate programs, concentrations and courses.

PROGRAM FOR THE DEGREE, ASSOCIATE IN SCIENCE IN CRIMINAL JUSTICE WITH A CONCENTRATION IN LAW ENFORCEMENT

	Hours
A. General Requirements	53
1. ENG 101, 102	10
2. ART 200, 271, 272, 273; MUS 200; PHI 200, 201	5
3. MAT 101	5
4. Laboratory science sequence	10
5. HIS 251 or 252; POS 113	10
6. PSY 101; SOC 201	10
7. PE 103 or 108, 117	3
B. Areas of Concentration	40
CS 100, 103, 210, 280, 301, 305, 370 and two CJ electives	
C. Regents' Examination	0
TOTAL	93

PROGRAM FOR THE DEGREE, ASSOCIATE IN SCIENCE IN CRIMINAL JUSTICE WITH A CONCENTRATION IN CORRECTIONS

	Hours
A. General Requirements	53
1. ENG 101, 102	10
2. ART 200, 271, 272, 273; MUS 200; PHI 200, 201	5
3. MAT 101	5
4. Laboratory science sequence	10
5. HIS 252 or 253, POS 113	10
6. PSY 101, SOC 201	10
7. PE 103 or 108, 117	3
B. Area of Concentration	40
CJ 100, 103, 210, 270, 280, 301, 303, 370 and one CJ elective	
C. Regents' Examination	0
TOTAL	93

At least 45 hours of each of these two programs must be completed at Armstrong.

PROGRAM FOR THE DEGREE, BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

Students who intend to major in Criminal Justice should complete Criminal Justice 100 before the end of the freshman year and should complete all general education requirements as soon as possible.

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. ART 200, 271, 272, 273; MUS 200; PHI 201; ENG 222	5
Area II	20
1. MAT 101 and 103, 195, 220, or 290	10
2. Laboratory sequence sequence	10
Area III	20
1.HIS 114, 115; POS 113	15
2. SOC 201; PSY 101; ECO 201 or ANT 201	5
Area IV	30
1. CJ 100, 103, 210, 270	20
2. Two courses selected from: ANT 201, ECO 210, 202, DRS 228, SOC 201, PSY 101	10
Area V	6
1. PE 103 or 108, 211	3
2. Three activity courses	3
Required Additional Courses	5
1. HIS 251 or 252	5
B. Area of Concentration	30
1. CJ 280, 301, 303, 305, 370, 390, 490	30
C. Electives from Related Areas	60
1. Sixty hours chosen from a list of selected electives. No more than fifteen hours may be taken from any one department except Criminal Justice. Six of these courses should be 300-400 level courses	60
C. Regents' and Exit Examinations	0
TOTAL	191

Majors in Political Science

The major in Political Science may take three distinctly differing forms: Political Science, *per se*, Political Science with Certification, or Public Administration.

To complete a Political Science major requires forty quarter hours of upper division courses in the field with grades of "C" or better in each course. Further, the program must include at least one course from each of the following: American Political Institutions, International Relations, Political Theory, and Comparative Government. The major allows the option of a foreign language (French or German preferred) through the 103 level or a sequence of computer science courses. Students who contemplate graduate work in Political Science are strongly advised to take the foreign language option and to continue their linguistic study beyond the 103 level.

Programs in Public Administration and Political Science with certification are more structured in order to prepare students adequately to meet the demands of their professions and appropriate licensing agencies.

Scholarships in Political Science

Limited scholarship aid is available annually. Interested students are invited to inquire in the Department of Government office for details.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

	Hours
A. General Requirements	96
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101, 220	10
2. One of the sequences: BIO 101, 102; BIO 121, 122: CHE 121, 122; PHY 121, 122; PHS 121, 122	10
Area III	20
1. HIS 114, 155; POS 113	15
2. One course from: ANT 201, ECO 201, PSY 101, SOC 201	5
Area IV	30
1. HIS 251 or 252	5

2. One of the sequences:
   A. Foreign language 101, 102, 103 or
   B. CS 110, 225 and 136, 146 or 231 15
3. Related courses 10

Area V 6
1. PE 103 or 108 and 117 3
2. Three activity courses 3

B. Courses in the Major Field 40
At least one course from each of the following areas:
1. American Political Institutions—POS 300, 304, 306, 307, 317, 318, 401. 403, 411, 412, 415, 416, 417, 418 5-25
2. International Affairs—POS 320, 325, 326, 329, 424, 429 5-25
3. Political Theory—POS 331, 332, 333 5-15
4. Comparative Government—POS 346, 348, 349, 445 5-20

C. Courses in Related Fields 25
To be chosen in fields such as Computer Science, Economics, Geography, Mathematics. See Department for exhaustive list 25

D. Electives 30

E. Regents' and Exit Examinations 0

TOTAL 191

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE (with teacher certification)

Hours

A. General Requirements 96

Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5

Area II 20
1. MAT 101, 220 10
2. Laboratory science sequence ... 10

Area III 20
1. HIS 114, 115; POS 113 15
2. PSY 101 5

Area IV 30
1. Foreign language 101, 102, 103 or CS 110, 225 and 136 or 146 or 231 15
2. HIS 251 or 252 5
3. One course from: ANT 201, ECO 201, SOC 201 5
4. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5

Area V 6
1. PE 103 or 108 and 117 3
2. Three activity courses 3

B. Courses in the Major Field 60
At least one course from each of the following areas:
1. American Political Institutions—POS 300, 304, 306, 307, 317, 318, 401, 403, 411, 412, 415, 416, 417, 418 5-25
2. International Relations—POS 320, 325, 326, 329, 424, 429 ... 5-25
3. Political Theory—POS 331-332, 333 5-15
4. Comparative Government—POS 346, 348, 349, 445 5-20
5. Supporting Work 20
Ten hours each from two of the following areas:
   A. HIS 251 or 252 and approved 300+ elective
   B. ECO 201 and approved 300+ elective
   C. Approved electives in behavioral sciences (ANT, PSY, SOC)
   D. GEO 211, 212 and approved GEO elective

C. Professional Sequence 40

1. EDN 200; EDU 310, 335, 449, 481, 482, 483 35
2. PSY 301 or EDU 302 5

D. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE (PUBLIC ADMINISTRATION)

Hours

A. General Requirements 96

Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5

Area II 20
1. MAT 101, 220 10
2. One of the sequences: BIO 101,

201; BIO 121, 122; CHE 121, 122; PHY 121, 122; PHS 121, 122 10
Area III 20
1. HIS 114, 115 10
2. POS 113; ECO 201 10
Area IV 30
1. CS 110, 225 and 136 and 146 or 231 15
2. HIS 251 or 252; ECO 202; SOC 201 15
Area V 6
1. PE 103 or 108 and 117 3
2. Three activity courses 3
B. Courses in the Major Field 45
1. One course from each of the following: 20
A. American Political Institutions—POS 306, 307, 327, 318, 411, 412, 415, 416, 417 5
B. International Affairs—POS 320, 325, 326, 329, 424, 429 5
C. Political Theory—POS 331, 332, 333 5
D. Comparative Government—POS 346, 348, 349, 445 5
POS 300; POS/PA 304, 401 403, 418 25
C. Courses in Related Fields 15
1. CS 306, 331 10
2. SOC 360 5
D. Electives 35
E. Regents' and Exit Examinations 0
TOTAL 191

Minor Concentrations

The Department of Government offers a number of minor concentrations.

A minor in Criminal Justice or in Political Science has great practical value. Its notation on the transcript indicates to an employer that the applicant has some solid liberal arts background with its accompanying insight into the development and functioning of modern society, and that the applicant has made an extra effort to refine research and writing skills so essential to dealing with that society. Whatever the major one chooses, such a minor will strengthen the student's academic record.

Minor concentrations are available in International Studies, Russian Studies, Public Administration, Economics and Criminal Justice.

Minors, in addition to grades of "C" or better in each course, require:

	Hours
International Studies	25
(assumes competency in one modern foreign language through the 103 level 1)	
1. POS 329 and 325 or 326	10
2. One course from: POS 320, 346, 348, 349	5
3. Two courses from: POS 429; HIS 321, 330, 350, 355, 435	10
Political Science	20
Twenty hours of 300+ level POS courses, with at least one course from each of the four concentration areas of POS	20
Russian Studies	20
1. RUS 201 (assumes completion of RUS 101-103 1)	5
2. POS 349	5
3. Two courses from: HIS 329, 330, 428, 431, 435, 481; POS 440	10
(a multi-departmental minor)	
Public Administration	25
POS 300; PA 304, 401, 403, 418	25
Economics	20
Twenty hours of economics courses with grades of "C" or better in each.	
1. ECO 201 and 201	10
2. Two course selected from: ECO 320, 330, 340, 363, 445	10
Criminal Justice	25
Twenty-five hours with grades of "C" or better in the following: CJ 100, CJ 210 *or* CJ 301, CJ 270, CJ 303, CJ 305	25

Criminal Justice Offerings

CJ 100—Introduction to Criminal Justice (5-0-5)

Offered each quarter.

This survey course examines the emergence of formal institutions established within the American experience to deal with criminal behavior. The philosophical and cultural origins of the criminal justice system and current trends in criminal justice are emphasized.

CJ 103—Developing Interpersonal Communications Skills (5-0-5)

Fall, Winter, Spring.

The emphasis of this course will be placed upon the development of interpersonal com-

munication skills, i.e., skills that can be effectively utilized on the job to improve interaction among employees and between employees and the public.

CJ 203—Criminal Law (5-0-5)
Offered on demand.
History and development of criminal law with definitions and general penalties. Special emphasis will be placed upon the Criminal Code of Georgia.

CJ 204—Criminal Investigation (5-0-5)
Offered on demand.
Introduction to investigative methodology. Special techniques employed in criminal investigation, such as crime scene searches, the use of informants, and the techniques of surveillance will be emphasized as well as the presentation of police cases in court.

CJ 210—Criminology (5-0-5)
Winter.
The nature and extent of crime in the United States; assessment and evaluation of various factors and influences that lead to criminal behavior; various measures proposed for the control of criminal behavior.

CJ 250—Directed Readings in Criminal Justice (5-0-5)
Offered on demand.
A course designed to permit each student to pursue an approved topic through independent study and research under the guidance and direction of the instructor.

CJ 270—Judicial Process (5-0-5)
Winter.
Courts as political subsystems in comparative perspective. Judicial decision-making and the development of public policy through the judicial process.

CJ 280—Ethics in Criminal Justice Practice and Research (2-0-2)
Spring.
Analysis of ethical concepts, principles, and prescriptive moral judgments in the practice and research of criminal justice.

CJ 301—Juvenile Delinquency (5-0-5)
Fall. Prerequisite: CJ 100 or consent of instructor.
A survey of theories of juvenile delinquency; the sociological, biological, and psychological factors involved in juvenile delinquency and the modern trends in prevention and treatment.

CJ 302—Criminalistics (5-0-5)
Offered on demand. Prerequisite: A natural science laboratory sequence or consent of instructor.
An introduction to the problems and techniques of scientific criminal investigation. Emphasis will be placed on familiarizing the student with the role of science and technology in modern law enforcement.

CJ 303—Penology (5-0-5)
Winter. Prerequisite: CJ 100, or consent of instructor.
This course deals with the analysis and evaluation of both historical and contemporary correctional systems. This course will also deal with the development, organization, operation and results of the different systems of corrections found in America.

CJ 304—Probation and Parole (5-0-5)
Offered on demand. Prerequisite: CJ 303 or consent of instructor.
This course will deal with the development, organization, operation and results of systems of probation and parole as substitutes for incarceration.

CJ 305—Law Enforcement Systems (5-0-5)
Spring. Prerequisite: CJ 100 or consent of instructor.
An introduction to the philosophical, cultural and historical background of the police idea. The course is conceptually oriented and will deal with concepts such as the role of the police in contemporary society, the quasi-military organization of the police, and community relations.

CJ 307—Community Based Treatment (5-0-5)
Offered on demand. Prerequisite: CJ 303 or consent of instructor.
This course will investigate the different community based treatment programs. An emphasis will be placed on investigating the function of halfway houses and the use of volunteers in corrections.

CJ 370—Criminal Procedure (3-0-3)
Spring. Prerequisite: CJ 270 or consent of instructor.
A survey of the distinctive features of, and the basis for, American Criminal Law buttressed by an analysis of leading court decisions relative to procedural rights emanating from the Bill of Rights.

CJ 380—Law of Evidence (5-0-5)

Offered on demand. Prerequisite: CJ 270 or consent of instructor.

An intensive analysis of the rules of evidence in criminal cases. Particular subjects will include burden of proof, hearsay evidence, and the principles of exclusion and selection.

CJ 390—Research Methods in Criminal Justice (5-0-5)

Fall. Prerequisites: ENG 111 and 112. CJ 210 or 301, CJ 303 and 305.

This course deals with the methods and techniques of research in the behavioral sciences. Emphasis will be placed on learning how to evaluate research.

CJ 391—Legal Research/Law Mini-Thesis (5-0-5)

Prerequisites: CJ 270, ENG 102.

Open to students of any major, this course comprises the major areas of legal research and writing: finding and using appropriate legal research tools and resources and applying these to develop and complete a scholarly legal research paper.

CJ 406—Law and Society (5-0-5)

Offered on demand. Prerequisite: CJ 270 or the consent of instructor.

The study of the theory and philosophy of law and the relationship between law and society. Current controversies such as civil disobedience and law and personal moraltiy will receive special attention.

CJ 409—Health Problems in the Correctional Environment (5-0-5)

This course will examine the impact of environmental aspects of prisons and jails on the physical and mental health of inmates. The interactive problems of organizing for and delivery of Health Services and Health Education in the social milieu of corrections will be explored.

CJ 440—Seminar in Criminal Justice (5-0-5)

Offered on demand. Prerequisite: Open to seniors only or by consent of the instructor.

An intensive study of selected topics relative to the concept of criminal justice. Subject matter will vary annually.

CJ 450—Field Experience I (5-0-5)

Offered each quarter. Prerequisite: Open to junior and senior criminal justice majors only and by invitation of the instructor.

The purpose of this course is to broaden the educational experience of students through appropriate observation and work assignments with criminal justice agencies. The course will be organized around specific problem orientations with operational research connotations. Students will be expected to spend a minimum of five hours per week in the participating agency. Open to transient students only with permission of the Dean of Arts and Sciences at Armstrong State College and of the college from which the student comes.

CJ 451—Field Experience II (5-0-5)

Offered each quarter. Prerequisite: Open to junior and senior criminal justice majors only and by invitation of the instructor.

This is a sequential course to CJ 450 which will permit the student to further broaden his perspectives. Open to transient students only with permission of the Dean of Arts and Sciences at Armstrong State College and of the college from which the student comes.

CJ 452-453-454—Internship (V-V-5)

Offered each quarter. Prerequisite: Open only to upper level criminal justice majors.

This course is designed to provide the student with an opportunity to apply academic training in the practical criminal justice setting. Settings will include law enforcement agencies (local, state or federal), community treatment facilities, and the courts. This course will be jointly supervised by college staff and law enforcement, correctional and court officials. Open to transient students only with permission of the Dean of Arts and Sciences of Armstrong State College and of the college from which the student comes.

CJ 490—Directed Research in Criminal Justice (5-0-5)

Offered each quarter. Prerequisite: CJ 390.

A course designed to provide qualified students the opportunity to perform suitable and meaningful research into some area of criminal justice under the direction of the

instructor. Open to transient students only with permission of the Dean of Arts and Sciences at Armstrong State College and of the college from which the student comes.

Economics Offerings

ECO 201—Principles of Economics I (5-0-5)
Offered Fall, Winter, and Summer. Prerequisite: At minimum, eligibility to enter MAT 101.

A survey of macro-economics, including basic economic concepts, national income, the monetary system, and the international economy.

ECO 202—Principles of Economics II (5-0-5)
Spring.

A survey of micro-economics, including the composition and pricing of national output, government and the market economy, factor pricing and income distribution, and a comparison of market systems.

ECO 320—International Trade (5-0-5)
Prerequisite: ECO 201

Examines the economic importance and problems of international trade, exchange rates and monetary standards, tariffs and other trade barriers. Attention will be focused on fixed and floating exchange rates and their effects on trade balances of states. Current debt problems of developing nations will be examined.

ECO 330—Economics of Finance (5-0-5)
Prerequisite: ECO 201

The study of governmental and corporate finance, with emphasis on fiscal and monetary policy. Open-market operations, discount policy, and the functions and problems associated with central banking will be examined and analyzed.

ECO 340—Economics of Labor (5-0-5)
Prerequisite: ECO 202

An introductory general survey of labor economics and labor relations. Organization and operation of American trade unionism, collective bargaining, economics of the labor market, wage theory and income distribution also among topics studied.

ECO 363—Economic History of the United States (5-0-5)
Offered alternate years. Prerequisite: ECO 201.

This course surveys the growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance will be studied and analyzed. (Identical with HIS 363).

ECO 445—Comparative Economic Systems (5-0-5)
Prerequisite: ECO 201.

The course will constitute a survey of the basic tenets of the major economic systems developed in the 19th and 20th centuries. The role of government and politics will be examined, along with the contributions to economic and political thought of such men as Adam Smith, Karl Marx, John Maynard Keynes, and Milton Friedman.

Political Science Offerings

POS 113—Government of the United States (5-0-5)
Offered each quarter. Prerequisite: Eligibility for college credit English, i.e. English 100 or above.

A study of the structure, theory, and functions of the national government in the United States and some of the major problems of the state and local government.

POS 213—Parliamentary Procedure (2-0-2)
Offered on demand.

An introduction into the theory and practice of parliamentary procedure in democratic organizations. Emphasis will be placed on the rules of order as well as on the application in a business meeting.

POS 300—Research Methods (5-0-5)
Winter. Prerequisite: POS 113.

This course deals with the methods and techniques of research in the behavioral sciences. Emphasis will be placed on learning how to evaluate research. (Identical with C.J. 390).

POS/PA 304—Politics of Bureaucracy (5-0-5)
Offered every year. Prerequisite: POS 113 or equivalent.

This is a one-quarter course that is primarily concerned with organizational theory and bureaucratic behavior, whether public or private, but with an emphasis on the behavior of the bureaucracy of the national government. Attention will also be given to political process as it unfolds in the administration of laws enacted by the Congress.

POS 306—Local Government (5-0-5)

Offered every year. Prerequisite: POS 113 or equivalent.

A study of the environment, structure, function, political processes, and policies of city, county and other local governments in the United States. Special attention will be given to the city governments of Savannah, Ga.; Charleston, S.C.; and Gainesville, Fla. Large diverse cities such as Atlanta, Jacksonville, Tampa, and Miami will also be compared in a more limited fashion and contrasted with Savannah, Charleston, and Gainesville. Policies examined will include finance (raising and spending money), education, welfare, pollution, transportation, and law enforcement.

POS 307—State Government (5-0-5)

Offered every year. Prerequisite: POS 113 or equivalent.

A study of the environment, structure, function, political processes, and policies of state governments in the United States. Special attention will be given to the governments of Florida, Georgia, and South Carolina and to their role in the federal system. Policies examined will include finance (raising and spending money), pollution, transportation, and law enforcement.

POS 317—Constitutional Law I (5-0-5)

Offered every year. Prerequisite: POS 113 or equivalent.

A study of the development of the United States government through judicial interpretation of the constitution. The case study method of analysis is used, but some attention is given also to recent behavioral writing on judicial decision-making.

POS 318—Constitutional Law II (5-0-5)

Offered every year. Prerequisite: POS 113 or equivalent.

A continuation of POS 317.

POS 320—International Relations: The Far East (5-0-5)

Offered alternate years.

Contemporary international politics in the Far East are examined in terms of such broad historical trends as the decline of imperialism, the development of nationalism, and the rise of the U.S., U.S.S.R., People's Republic of China, and Japan as major powers in Asia.

Some attention will be given to contemporary key issues such as the Sino-Soviet conflict, the future of Formosa, U.S.-Japan Mutual Security Treaty revision, and U.S.-Japan economic interaction.

POS 325—International Organizaiton. (5-0-5)

Offered alternate years. Prerequisite: POS 113 or permission of instructor.

A survey of the development, principles, structures and functions of international organizations, with emphasis upon the role of these institutions in the maintenance of peace.

POS 326—International Law (5-0-5)

Offered alternate years. Prerequisite: POS 113 or permission of instructor.

An introduction to selected public international law topics including: recognition, state succession, jurisdiction, extradition, nationality, the law of treaties, the law of diplomacy, and the law of war.

POS 329—International Relations (5-0-5)

Winter. Prerequisite: POS 113 or permission of instructor.

An introduciton to the theories, forces, and practices dominating contemporary international relations.

POS 331—Early Political Thought (5-0-5)

Fall.

An historical study of the development of ideas relative to the state and government from Socrates and Plato to the Seventeenth Century. Attention is directed primarily to the political thought of a selected group of eminent philosophers.

POS 332—Modern Political Thought (5-0-5)

Winter. Prerequisite: POS 331 or permission of instructor.

A continuation of POS 331, from the 17th to the 20th century.

POS 333—Contemporary Political Ideologies (5-0-5)

Spring. Prerequisite: POS 332 or permission of instructor.

A continuation of POS 332, including a general survey and analysis of the important ideological currents of our time with selected indepth readings from original sources.

POS 346—Governments of East Asia (5-0-5)

Offered alternate years. Prerequisite: POS 113 or permission of instructor.

A comparative examination of the contemporary political institutions, processes, and ideas of the People's Republic of China, Japan, and Korea. Examines the development of these political systems with particular emphasis on historical, social, cultural, and contemporary-issue dimensions.

POS 348—Governments of Western Europe (5-0-5)

Offered alternate years. Prerequisite: POS 113 or equivalent.

An analytical and comparative study of the major Western European governments, with principal emphasis upon the analysis of the conditions which led to effective and stable parliamentary government and those which lead to the inefficiency, instability and breakdown of such systems.

POS 349—Government of the Soviet Union (5-0-5)

Offered alternate years. Prerequisite: POS 113 or permission of instructor.

The primary purpose of this course is to focus on the study of contemporary Soviet politics along developmental scheme. Comparison of the pre-modern Tsarist autocratic regime and the contemporary Soviet totalitarian regime will be attempted. Also the course will cover such topics as Soviet political culture, political socialization process of the mass, governmental processes, and the public policy making/implementation aspects.

POS 395—Internship (V-V-(1-5))

Prerequisite: Junior (with 3.5 GPA) or Senior standing (with a 3.0 GPA minimum).

The student will pursue an individually designed course project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full eleven-week quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. Application and arrangements must be made through the department by mid-quarter preceding the quarter of the internship.

Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

POS 400—Senior Seminar (5-0-5)

Admission will be subject to approval of the instructor. Offered on demand. Designed to permit superior students to pursue research and reading in some field of political science under the supervision of the staff.

POS/PA 401—Politics of the Budgetary Process (5-0-5)

Offered alternate years.

This course examines the procedures, strategies and rationales involved in making public budgets at the local, state, and national levels. It is also concerned with critiques of the several types of budgets now in use together with an explanation fiscal and monetary policies as they affect budgeting. Finally, it is concerned with the revenue systems in effect together with auditing and other controls exercised in the budgeting process.

POS/PA 403—Public Policy Development (5-0-5)

Offered alternate years. Prerequisite: POS 304 or permission of the instructor.

This course is primarily concerned with a study of the theoretical aspects of decision-making theories (i.e., rational/comprehensive model vs. incremental model), political aspects of policy-making process, mobilization of political support, and the cost/benefit aspects of the public policy-making.

Some attempt will be made to apply the general theory of public policy-making to specific settings of welfare policy, urban problems, and national defense/foreign policy.

POS 410—Independent Study in American Government (V-V-(1-5))

Offered each quarter. Prerequisite: A minimum of 120 credit hours, including at least 20 hours in Political Science at the 300-level or above. Admission is by approval of a departmental committee.

Designed to permit superior students to pursue individual research and reading in some field of political science under the supervision of a member of the staff. Emphasis will be on wide reading, conferences with the advisor and written reports and essays. Normally open only to students with a B average (3.0) in Political Science and at least a 2.5 GPA overall. Applications must be filed with the Department by mid-quarter preceding the quarter independent study is contemplated.

Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

POS 411—American Presidency (5-0-5)

Offered alternate years.

Offers an in-depth look at the office of the presidency, with the principal emphasis on the relations of the executive branch with the Congress and the court system. Some attention will be given to the evolution of the presidency to its present dominant position in the American political process. (Completion of a survey course in American History is desirable).

POS 412—American Political Parties (5-0-5)

Operation of political parties in the political system. Relationship between party organization, electoral system, and the recruitment and advancement of political leaders.

POS 415—American Supreme Court (5-0-5)

Offered alternate years.

An analysis of the structure and functions of the Court, including examination of the role of the Court as policy maker.

POS 416—United States Constitutional History I (5-0-5)

Offered alternate years.

A study of the origins, content, and expansion of the Constitution of United States. (Identical with HIS 416).

POS 417—United States Constitutional History II (5-0-5)

Offered alternate years.

A study of more recent constitutional development from the Reconstruction era to the present day. (Identical to HIS 417).

POS/PA 418—Administrative Law (5-0-5)

Offered alternate years. Prerequisite: POS 113.

This course explores the framework of law governing administrative agencies including: administrative power and its control by the courts, the determination and enforcement of administrative programs, discretion of administrative officials and their powers of summary actions, hearings before administrative boards, and the respective spheres of administrative and judicial responsibility.

Some attention will be given to the problem of the maintenance of traditional procedural safeguards in administrative law and the problem of civil rights and relation to administrative boards. Leading cases will be examined.

POS 420—Independent Study in International Relations (V-V-(1-5))

Available each quarter. Prerequisite: A minimum of 120 credit hours, including at least 20 hours in Political Science at the 300-level or above. Admission is by approval of a departmental committee.

Designed to permit superior students to pursue individual research and reading in some field of international relations under the supervision of a member of the staff. Emphasis will be on wide reading, conferences with the advisor and written reports and essays. Normally open only to students with a B average (3.0) in Political Science and at least a 2.5 GPA overall. Applications must be filed with the Department by mid-quarter preceding the quarter independent study is contemplated.

Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

POS 424—Seminar on the Sino-Soviet Power Rivalries (5-0-5)

Offered alternate years.

Critical assessment of the early Sino-Soviet relations before and after the 1917 Bolshevik Revolution, followed by analysis of the roots of the Sino-Soviet conflicts in territorial, economic, strategic, political, and ideological perspectives. The implication of this schism for the oontemporary global security relations will be critically examined. Heavy emphasis on research and oral presentation by the student. Prerequisite: POS 320, 629, 721 or by permission of the instructor.

POS 429—American Foreign Policy (5-0-5)

Offered alternate years.

An analysis of U.S. foreign policy and factors, both domestic and foreign, contributing to its formulation.

POS 430—Independent Study in Political Theory (V-V-(1-5))

Offered each quarter. Prerequisite: A minimum of 120 credit hours, including at elast 20 hours in Political Science at the 300-level or above. Admission is by approval of a departmental committee.

Designed to permit superior students to pursue individual research and reading in some field of political theory under the supervision of a member of the staff. Emphasis will be on wide reading, conferences with the advisor and written reports and essays. Nor-

mally open only to students with a B average (3.0) in Political Science and at least a 2.5 GPA overall. Applications must be filed with the Department by mid-quarter preceding the quarter independent study is contemplated.

Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

POS 440—Independent Study in Comparative Government (V-V-(1-5))

Offered each quarter. Prerequisite: A minimum of 120 credit hours., including at least 20 hours in Political Science at the 300-level or above. Admission is by approval of a departmental committee.

Designed to permit superior students to pursue individual research and reading in some field of comparative government under the supervision of a member of the staff. Emphasis will be on wide reading, conferences with the advisor and written reports and essays. Normally open only to students with a B average (3.0) in Political Science and at least a 2.5 GPA overall. Applications must be filed with the Department by mid-quarter preceding the quarter independent study is contemplated.

Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

POS 445—Comparative Economic Systems (5-0-5)

Offered alternate years.

The course will constitute a survey of the basic tenets of the major economic systems developed in the 19th and 20th centuries. The role of government and politics will be examined, along with the contributions to economic and political thought of such men as Adam Smith, Karl Marx, John Maynard Keynes, and Milton Friedman.

History

Faculty

Warlick, Roger, Department Head
Arens, Olavi
Babits, Lawrence
Comaskey, Bernard
Duncan, John
Gross, Jimmie
Lanier, Osmos
Patterson, Robert
Pruden, George
Robertson, Mary
Stocker, Erich
Stone, Janet

Majors in History

The major in history may take either of two forms: History *per se* or History with T-4 Certification.

In addition to meeting minimum requirements for either program, students contemplating graduate work in history are strongly advised to continue their linguistic study beyond the language sequence 103 level. The history faculty will consider substitutions for the foreign language requirement only when compelling reasons argue against its fulfillment and only when the proposed substitute offers an additional research skill or a study in depth of a foreign culture. Advanced coursework in History for either form of the major requires HIS 300 and HIS 495 or 496. In selecting the remainder of their advanced courses students may choose to concentrate in one particular area of History (e.g. European or American), providing they diversify to the extent of completing at least ten hours outside that area.

Honors in History

Honors in History will be awarded to those History majors with a 3.5 GPA in all History courses who submit an acceptable honors research paper to the department. The paper may, but does not have to be prepared in conjunction with a course that the student has taken. The paper should be the student's own work, based on research in primary sources, and be complete with end notes, bibliography and other critical apparatus. It should be typewritten and follow Turabian's guide. The paper must be submitted during the last quarter the student is in attendance before graduation and must be submitted by mid-term of that quarter. The paper will be judged by a departmental jury of four faculty members who will by a majority vote determine if honors should be awarded. The awarding of honors will be noted on the student's transcript.

Scholarships in History.

Limited scholarship aid is available annually. Interested students are invited to inquire in the department office for details.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN HISTORY

Hours

A. General Requirements* 96
  Area I 20
    1. ENG 101, 102 or 192, 201 or 292 15
    2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
  Area II 20
    1. MAT 101 and 103, 195, 220 or 290 10
    2. One of the sequences: BIO 101, 102; BIO 121, 122; CHE 121, 122; PHY 121, 122; PHS 121, 122 10
  Area III 20
    1. HIS 114 or 191, 115 or 192, POS 113 15
    2. One course from: ANT 201; ECO 201; SOC 201; PSY 101 5
  Area IV 30
    1. Foreign language 101, 102, 103 15
    2. History 251, 252 10
    3. Related course 5
  Area V 6
    1. PE 103 or 108 and 117 or 211 3
    2. Three activity courses 3
B. Courses in the Major Field 40
    1. HIS 300 and 495 or 496 10
    2. History courses 300 level or above with at elast 10 hours outside the area of concentration 30
    The concentration areas are:
    A. U.S. History—HIS 351, 352, 354, 355, 357, 361, 363, 365, 371, 374, 375, 376, 377, 379, 400, 403, 416, 417, 421, 422, 451, 470, 471, 485, 486, 496
    B. European History—HIS 333, 336, 340, 341, 342, 343, 344, 345, 346, 347, 348, 350, 410, 411, 447, 483, 484, 495.
    C. Russian-Asian-African-Latin American History—HIS 310, 312, 320, 321, 322, 323, 329, 330, 428, 431, 435, 481, 482
C. Courses in Related Fields 20
    To be chosen from such fields as anthropology, economics, literature, sociology, statistics. See Department for exhaustive list 20
D Electives 35
E Regents' and Exit Examinations 0

TOTAL 191

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN HISTORY (with teacher certification)

Hours

A. General Requirements 96
  Area I 20
    1. ENG 101, 102 or 192, 201 or 292 15
    2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
  Area II 20
    1. MAT 101, 220 10
    2. Laboratory science sequence ... 10
  Area III 20
    1. HIS 114 or 191, 115 or 192; POS 113 15
    2. PSY 101 5
  Area IV 30
    1. HIS 251 or 252 5
    2. Foreign language 101, 102, 103 15
    3. One course from: ANT 201, ECO 201, SOC 201 5
    4. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
  Area V 6
    1. PE 103 or 108 and 117 or 211 3
    2. Three activity courses 3
B. Courses in the Major Field 60
    1. HIS 300 and 495 or 496 10
    2. U.S. History
      A. HIS 371 or 377 (dependent on HIS 251, 252 selection) 5
      B. One or two courses from: HIS 351, 352, 354, 355, 361, 363, 365, 374, 375, 376, 379, 400, 403, 416, 417, 421, 422, 451, 471, 485, 486, 496 5-10
    3. Russian-Asian-African-Latin American History
      Two courses from: HIS 310, 312, 320, 321, 322, 323, 329, 330, 428, 431, 435, 481, 482 10
    4. European History
      Two or three courses from: HIS 333, 336, 340, 341, 342,

343, 344, 345, 346, 347, 348, 350, 410, 411, 447, 483, 484, 495 10-15
5. Supporting Work 20
Ten hours each from two of the following areas:
A. Approved 300-400 level POS electives
B. ECO 201 and approved 300+ elective
C. Approved electives in behavioral sciences (SOC, ANT, PSY)
D. GEO 211, 212 and approved GEO elective

C. Professional sequence 40
1. EDN 200; EDU 310, 335, 449, 481, 482, 483 35
2. PSY 301 or EDU 302 5
D. Regents' and Exit Examinations 0

TOTAL 196

Minor Concentrations

The Department of History offers a number of minor concentrations.

A minor in History has great practical value. Its notation on the transcript indicates to an employer that the applicant has some solid liberal arts background with its accompanying insight into the development and functioning of modern society, and that the applicant has made an extra effort to refine research and writing skills so essential to dealing with that society. Whatever the major one chooses, such a minor will strengthen the student's academic record.

Students who hope to work in history-related fields upon graduation should consider adding a minor in Museum or Preservation Studies, or in Historical Archaelogy. Through this program unique opportunities are provided for qualified students to gain practical experience while making a realistic assessment of the possibilities offered by their field of interest. Cooperative arrangements with Historic Savannah Foundation, Georgia Historical Society, Savannah Landmark Project, Oatland Island Center, and with a number of museums and historical sites, such as Telfair Academy, Ft. Pulaski, Juliette Low Center, and Ft. King George, permit placement of students in positions relating to:

(a) archival and manuscript curation, (b) historic site administration and interpretation, (c) museum studies, (d) historic preservation, and (e) historical archaelogy.

Additional minor concentrations are offered jointly with the Department of Government in International Studies and Russian Studies.

Minors, in addition to grades of "C" or better in each course, require the following:

Hours

History 20
1. Twenty hours of 300+ level HIS courses 20

Historical Archaeology 25
1. MPS/ANT 401, 402, and 422
2. Ten hours from the following: HIS 300, 341, 361, 371, and 403

International Studies 25
(assumes competency in one modern foreign language through the 103 level*).
1. POS 329 and 325 or 326 10
2. One course from: POS 320, 346, 348, 349 5
3. Two courses from: POS 429; HIS 321, 330, 350, 355, 435 10

Museum Studies 25
1. HIS 300 5
2. MPS 410, 411, 412 and 402 or 495 20

Preservation Studies 25
1. HIS 300 5
2. MPS 412, 420 and 421 or 422 15
3. MPS 401 or 498 5

Russian Studies 20
1. RUS 201 (assumes completion of RUS 101-103*) 5
2. POS 349 5
3. Two courses from: HIS 329, 330, 428, 431, 435, 481; POS 440 10

Geography Offerings

GEO 211—Physical Geography (5-0-5)

Autumn.

Course will include such topics as earth-sun relationships, cartography, weather, climate and climate classification, soils, bio-geography, vegetation and landforms. Emphasis will be on global patterns of distribution.

GEO 212—Cultural Geography (5-0-5)

Winter.

Course will include such topics as the concept of culture, population settlement, pat-

terns, technological origins and diffusions, types of economics and the relationship of man to his environment. Emphasis will be given to the process of cultural change through time in place.

GEO 302—Principles of Geology (5-0-5)
Prerequisite: GEO 211 plus 10 hours of a lab science.

A introduction to physical and historical geology. A study of the origin, evolution, and structure of the earth's crust, and geologic history. (Identical with GEL 302).

GEO 303—Principles of Meteorology (5-0-5)
Prerequisite: GEO 211 plus 10 hours of a lab science.

An introduction to the description of the state of the atmosphere and to the physical laws that describe atmospheric phenomena. (Identical with MET 303).

GEO 310—Man and the Environment (5-0-5)
Prerequisite: GEO 211 or 212 plus 75 quarter hours credit in college courses.

Considerations of the interactions between humans and the support systems of the earth which are essential to their existence. (Identical with BIO 310.)

History Offerings

General

HIS 114—Civilization I (5-0-5)
Offered each quarter. Prerequisite: Eligibility for college credit English, i.e. English 100 or above.

A survey of the main currents of political, social, religious, and intellectual activity from the time of the ancient Middle-Eastern civilizations to 1715. Throughout the course the major civilized traditions are considered and comparative methods used to facilitate interpretations of them.

HIS 115—Civilization II (5-0-5)
Offered each quarter. Prerequisite: Eligibility for college credit English, i.e. English 100 or above.

A survey of the main currents of political, social, religious, and intellectual activity from 1715 to the present. Throughout the course the major civilized traditions are considered and comparative methods used to facilitate interpretations of them. A continuation of HIS 114.

HIS 150—A Survey of the History of Health Care (4-2-5)
Selected inquiries into the theories, practices, and conditions from which the modern health care professions have evolved. Some use will be made of local medical archives where appropriate.

HIS 191—Honors Civilization I (5-0-5)
Fall. Prerequisites: B's or better in High School History and an SAT verbal score of at least 550.

This course replaces HIS 114 for selected students. While the subject matter will be the same as for HIS 114, the treatment of it will vary greatly. Likewise, instruction will go beyond the usual lecture method, allowing students to read widely and carry out their own research under the direction of the professor.

HIS 192—Honors Civilization II (5-0-5)
Winter. Prerequisite: HIS 191 or a grade of "A" in HIS 114.

This course replaces HIS 115 for selected students. While the subject matter will be the same as for HIS 115, the treatment of it will vary greatly. Likewise, instruction will go beyond the usual lecture method, allowing students to read widely and carry out their own research under the direction of the professor.

HIS 300—Historical Method (3-4-5)
Autumn and Spring (evenings). Required of all History majors and of Museum and Preservation Studies minors.

An introduction to the nature and method of historical research, treating problems of investigation, organization, and writing through discussion and actual research experience in local history.

HIS 301—Auxiliary Sciences of History (5-0-5)
Winter, 1986.

An introduction to the various specialized fields of investigation which can be utilized to supplement the information gathered from published historical sources. These auxiliary sciences include studies as: palaeography, diplomatic, heraldry, genealogy, iconography, demography, chronology and numismatics.

HIS 395—Internship (V-V-(1-5))
Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes. Prerequisites: 3.0 in all history courses; 20 hours of upper level history including HIS 300.

Application and credit arrangements must be made through the department in advance, normally by mid-quarter preceding the quarter of internship.

The student will pursue an individually designed course project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under the joint supervision of the sponsoring agency and his faculty advisor.

This internship, graded on an S or U basis, will be credited among electives, not as a part of the minimum 40 hours of traditional work required for the major.

United States History Offerings

HIS 251—American History to 1865 (5-0-5)

Offered each quarter. Prerequisite: Eligibility for ENG 101.

A survey of the political, economic, and social history of the United States to end of the Civil War.

HIS 252—American History Since 1865 (5-0-5)

Offered each quarter. Prerequisite: Eligibility for ENG 101.

A survey of the political, economic, and social history of the United States from 1865 to the present.

HIS 351—Popular Culture in the United States to 1900 (5-0-5)

Autumn, 1986.

An examination of the major trends in the news media, popular literature, entertainment, and recreational activities to 1900.

HIS 352—Popular Culture in the United States Since 1900 (5-0-5)

Winter, 1987.

An examination of the major trends in the news media, popular literature, entertainment, and recreational activities since 1900.

HIS 354—Studies In American Diplomacy to WW I (5-0-5)

Autumn, 1986.

Considers American objectives and policies in foreign affairs from colonial times to World War I.

HIS 355—Studies In American Diplomacy since WW I (5-0-5)

Winter, 1987.

Considers American objectives and policies in foreign affairs from World War I to the present.

HIS 357—American Military History (5-0-5)

Spring. Prerequisite: Sophomore standing.

A study of the history of warfare and military technique in their social, economic, and political contexts, with special emphasis on the American military tradition.

HIS 361—The Old South (5-0-5)

Spring, 1986.

Economic, cultural, and political history of the antebellum South with emphasis on those factors that made the South a unique section of the nation.

HIS 363—Economic History of the United States (5-0-5)

Prerequisite: ECO 201.

This course surveys the growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance will be studied and analyzed. (Identical with ECO 363.)

HIS 365—The American Indian (5-0-5)

Winter, 1986.

A study of the history and cultures of the aborigines of the Americas.

HIS 371—Colonial and Revolutionary America (5-0-5)

Winter, 1986 (evening).

A study of the discoveries of the New World and the settlement and growth of the English colonies of North America; triumph over France in the New World, the drastic change in British colonial policy and the rise of American opposition to it, the achievement of independence and the establishment of the United States under the Constitution.

HIS 374—Women In American History (5-0-5)

Autumn, 1985.

Women in American History: An examination of the changing political, social, and economic roles of the American woman from colonial times to the present. Emphasis will be given to the pre-Civil War feminist reform

movements, woman's broader social and economic role after the war, her awakening awareness of the need for political power, and the mid-20th century revolution.

HIS 375—Civil War and Reconstruction (5-0-5)

Autumn, 1986.

The causes and significance of the American Civil War, with minor consideration of the military campaign; political, economic and social aspects of reconstruction.

HIS 376—Victorian America (5-0-5)

Autumn, 1987.

Presentation of the major subjects of the late 19th century, including the emergence of a national economy, its theory and policies; partisan and reform politics; the moral and Constitutional dimensions of Reconstruction; American society and social thought; and territorial aggrandisement.

HIS 377—Recent America (5-0-5)

Spring, 1987.

An analysis of the institutions and forces which molded American life from the late 19th century (1890) through World War II, including political, economic, social and intellectual issues.

HIS 379—Contemporary America (5-0-5)

Spring, 1986.

An examination of the society of the United States since World War II, with special emphasis given to the major social and cultural trends.

HIS 400—Seminar in American History (5-0-5)

Permission of instructor required for admission. Offered on demand.

Designed to permit a group of advanced students to pursue intensive research on a special topic in the field to be defined by the instructor.

HIS 403—American Material Culture (4-2-5)

Winter, 1986.

An introduction to the study of the nonliterary remains of our society, past and present. Vernacular and polite architecture, ceramics, mortuary art, community and settlement patterns, dress, diet, and diseases are among the topics that will be discussed. (Identical with AC 403, MPS 403 and ANT 403).

HIS 416—United States Constitutional History (5-0-5)

A study of the origins, content, and expansion of the Constitution of the United States. (Identical with POS 416.)

HIS 417—United States Constitutional History (5-0-5)

Offered alternate years.

A study of more recent constitutional development from the Reconstruction era to the present day. (Identical with POS 417.)

HIS 421—Architectural History (4-2-5)

Spring, 1987.

A study of various styles of American architecture, Georgian, Federal, Neoclassical, Eclecticism and modern; slides from Historic American Building Survey; landscape architecture. Visiting speakers and field trips will be used.

HIS 422—Historical Archaeology (5-0-5)

Winter, 1987. Prerequisite: MPS 207, or permission of the instructor.

An introduction to the archaeology of North America since the arrival of European man in the New World. Some attention will be paid to British and Continental Post Medieval Archaeology as well as to the special areas of industrial and Nautical Archaeology. Special stress will be given to archaeological method and theory both as perspective for the writing of history and as a component of Historic Preservation. (Identical with MPS 422.)

HIS 451—Reform Movements in American History (5-0-5)

Spring, 1987.

A study of the reform movements in America since the Revolution.

HIS 470—History of Savannah (5-0-5)

Winter, 1987.

Begins with a history of local Indians, emphasis on the founding of the colony at Savannah and on the colonial, Revolutionary, antebellum and Post-Civil War periods. Political, economic, social, religious and artistic trends are discussed and placed in context of Georgia and U.S. history.

The course will involve considerable research in primary sources available locally.

HIS 471—Seminar in Georgia and Local History (5-0-5)

Autumn, 1985. Prerequisite: HIS 470 or permission of the instructor.

An exposition of the principles and techniques of local history followed by an intensive investigation of selected aspects of the history of Savannah and Georgia using primary sources and culminating in a research paper.

HIS 485-486—Independent Study in United States History (V-V-(I-5))

Available each quarter. Prerequisites: HIS 300 and at least 15 additional hours in upper division History courses (with a minimum GPA of 3.0), an overall GPA of 2.5 (after completion of 120 hours), and an approved application. Open to transient students only with the permission of the Dean of Faculty at Armstrong and the college from which the student comes.

Designed to permit superior students to pursue individual research and reading in the chosen field under the supervision of a member of the History faculty. An application must be filed with the department, in advance, normally by mid-quarter preceding the independent study. A full description of the requirements and an application may be obtained in the departmental office.

HIS 496—American Historiography (5-0-5)

Spring, 1986 (evening).

Required of some history majors (see program outlines, part B.)

A study of the writing of American history from colonial times to the present with emphasis on the historical philosophies and interpretations of the major schools of thoughts as well as individual historians. Recommended especially to students contemplating graduate work in History.

European History Offerings,

HIS 333—Modern Germany, 1789-1933 (5-0-5)

A study of Germany from the pluralism of the Holy Roman Empire through the German confederation to the unified Reich. Attention will be given to the political, social, and cultural developments in Austria, Prussia, and the "Third Germany."

HIS 336—Modern East Central Europe (5-0-5)

Spring, 1986.

A survey of the history of the nations between Germany and Russia in the 19th and 20th centuries. Topics to be covered include the rise of nationalism, the gaining of independence, problems in establishing democracy, experience during World War II, and the establishment of communist control.

HIS 340—English History, 1485-1660 (5-0-5)

Autumn, 1985 (evening).

An analysis of political, constitutional, economic, and religious issues under the Tudors and early Stuarts, including the English Civil War.

HIS 341—English History, 1660-1815 (5-0-5)

Autumn, 1986 (evening).

An investigation of the Restoration monarchies, the constitutional revolution of 1688, the rise of ministerial responsibility in the early 18th century, the American colonial revolt, and England's relationship to the French Revolution.

HIS 342—Ancient History (5-0-5)

A study of the early civilizations of the Middle East, the Greek city states, the Roman republic and empire, with special emphasis on the social, political and cultural contributions of these ancient peoples.

HIS 343—Early Middle Ages, A.D. 333-c.1000 (5-0-5)

Autumn, 1986.

The history of Europe from the fall of the Roman Empire through the Carolingian period with special emphasis on the institutional developments which led to the emergence of stable kingdoms out of the chaos of the barbarian invasions.

HIS 344—The High Middle Ages, C.1000 to c.1300 (5-0-5)

Winter, 1987.

The history of Europe from c.1000 to c.1300 with emphasis on the struggle between church and state, the Crusade movement, and the 12th century intellectual renaissance, all of which profoundly influenced the development of the various medieval kingdoms.

HIS 345—The Late Middle Ages and Renaissance (5-0-5)

Spring, 1987.

The history of Europe from c.1300 to 1517 with emphasis on the political, cultural, and intellectual developments which transformed medieval and Renaissance society.

HIS 346—Reformation Era (5-0-5)

Winter, 1986.

A study of the controversial era emphasizing

its major issues and movements, and their development through the Thirty Years War. Political, social, and economic, as well as religious facets of the upheaval will be considered.

HIS 347—Age of Absolutism (5-0-5)

Autumn, 1986.

The primary focus of this course is the political, social and intellectual history of western Europe during the seventeenth and eighteenth centuries.

HIS 348—Europe in the Nineteenth Century (5-0-5)

Winter, 1986.

A study of the most important social, political, and intellectual directions of European history from the Congress of Vienna to the end of the nineteenth century.

HIS 350—Europe in the Twentieth Century (5-0-5)

Summer, 1985; Spring, 1986.

A study of the major developments in Europe since 1900.

HIS 410—Seminar in European History (5-0-5)

Offered on demand.

Permission of instructor required for admission.

A detailed analysis of a specific problem in European history by examination of primary materials.

HIS 411—Seminar on the Crusades (5-0-5)

Spring, 1986.

An examination of the 12th and 13th century Crusade movement through the study of the available primary source material.

HIS 447—The French Revolution and Napoleon (5-0-5)

Autumn, 1985.

The ideas and events of the Old Regime and the Enlightenment in France, with emphasis on the impact of the French Revolution and the career of Napoleon upon the major European nations.

Readings on the French Revolution, with special emphasis on conflicting interpretations, or research projects may be assigned.

HIS 483-484—Independent Study in European History (V-V-(1-5))

Available each quarter. Prerequisites: HIS 300 and at least 15 additional hours in upper division History courses (with a minimum GPA of 3.0), an overall GPA of 2.5 (after completion of 120 hours), and an approved application. Open to transient students only with the permission of the Dean of Faculty at Armstrong and the college from which the student comes.

Designed to permit superior students to pursue individual research and reading in the chosen field under the supervision of a member of the History faculty. An application must be filed with the department, in advance, normally by mid-quarter preceding the independent study. A full description of the requirements and an application may be obtained in the departmental office.

HIS 495—European Historiography (5-0-5)

Spring, 1987. Required of some History majors. (See program outlines, part B.)

A study of the writers of history in the Western cultural tradition, with an emphasis on the historical philosophies, interpretations, and problems raised by the major modern European historians. Recommended especially to students contemplating graduate work in History.

Russian, Asian, African and Latin American History Offerings

HIS 310—Latin America (5-0-5)

Offered alternate years.

An introductory course in Latin-American history with consideration given to institutions of the areas as well as events and personalities.

HIS 312—History of Africa (5-0-5)

Spring, 1986.

A survey of African civilizations from ancient times, with major emphasis on development of the continent since 1800.

HIS 320—Traditional China (5-0-5)

Winter, 1987.

The history of Chinese civilization from ancient times to the early nineteenth century, with emphasis on its characteristic political, social, economic, and cultural developments.

HIS 321—Modern China (5-0-5)

Spring, 1987.

The history of China from the nineteenth century to the present, with emphasis on political, social, economic, and intellectual developments.

HIS 322—History of Japan (5-0-5)

Autumn, 1985 (evening).

A survey of the history of Japan from the

earliest times to the present, with primary emphasis on its emergence as a world power since the late nineteenth century.

HIS 323—History of the Middle East (5-0-5)
Spring, 1986 (evening).

A survey of middle eastern history from Muhammed to the present. Topics will include the basic beliefs of Islam, Islamic conquests and caliphates, interaction with European civilization during the Crusades and since the rise of the Ottoman Empire, Western influence from the early nineteenth century, and current issues in light of their historical backgrounds, including the Arab-Israeli conflict.

HIS 329—Medieval Russia (5-0-5)
Autumn, 1985.

A survey of the economic, social, and political development of the Russian state from its foundation in the 9th century through its modernization by Peter the Great in the early 18th century.

HIS 330—Modern Russia (5-0-5)
Winter, 1986.

A survey of Russian history from Peter the Great to the present. The major political, cultural, economic, and social developments of Russia in both the Imperial and Soviet periods will be covered.

HIS 428—Russia and the West (5-0-5)
Summer, 1985.

A detailed study of the impact of Western influence on the Muscovite state in the sixteenth and seventeenth centuries.

HIS 431—The Russian Revolution (5-0-5)
Winter, 1987. Prerequisite: Permission of the instructor.

An examination of the Russian revolutionary tradition, the causes for the collapse of Tsarism, the Bolshevik Revolution, and victory in the Russian Civil War.

HIS 435—History of Soviet Foreign Policy (5-0-5)
Autumn, 1985.

This course reviews historically the development of Soviet foreign policy toward Western European states, notably Germany, and also with the non-European world through 1917-1940, World War II, and Cold War phases. Special attention will be given in this last phase to U.S.-Soviet rivalry. Soviet relations with other communist states in Eastern Europe, China, and the Third World, and to the recent moves toward detente.

HIS 481-482—Independent Study in Russian/Asian/African/Latin-American History (V-V-(1-5)).

Available each quarter. Prerequisites: HIS 300 and at least 15 additional hours in upper division History courses (with a minimum GPA of 3.0), an overall GPA of 2.5 (after completion of 120 hours), and an approved application. Open to transient students only with the permission of the Dean of Faculty at Armstrong and the college from which the student comes.

Designed to permit superior students to pursue individual research and reading in the chosen field under the supervision of a member of the History faculty. An application must be filed with the department, in advance, normally by mid-quarter preceding the independent study. A full description of the requirements and an application may be obtained in the departmental office.

Museum and Preservation Studies Offerings

MPS 201—Introduction to Museum and Preservation Studies (5-0-5)
Autumn and Spring (evening).

MPS 201 is designed to introduce the interested student to the wide variety of techniques and approaches used in the museum and preservation field. The course will cover curatorship, administration, grantsmanship, exhibits, living history, and archaeology as well as presenting information about architecture and adaptive reuse of historic structures. The student will also be familiarized with archive storage and use as well as the curation of some materials.

MPS 207—Introduction to Archaeology (5-0-5)
Autumn, 1985 (evening), and Spring, 1986.

The introductory archaeology course consists of a history of the field, basic techniques, theoretical underpinnings, and examples of field work from all types of excavation. It covers the range from early man to industrial and urban archeology in a general fashion. Analysis is introduced along with survey techniques, preservation, reporting and other skills. (Identical with ANT 207.)

MPS 401—Fieldwork in Historical Archaeology (0-10-5)
Summer. Prerequisite: MPS 207 or permission of instructor or director.

An introduction to and first application of archaeological methods to a specific field project. Excavation techniques, surveying and map making, data collecting and recording, archaeological photography, the identification and analysis of artifacts, and the interpretation or archaeological data will be presented in field and laboratory work as well as in lectures and readings. (Identical with ANT 401). (Under certain circumstances this course may be substituted in the Preservation Studies minor for MPS 498). Course may be repeated for credit.

MPS 402—Practicum in Archaeological Analysis (2-8-5)

Autumn, 1986. Prerequisite: permission of instructor or director.

The application of archaeological interpretative techniques to a specific site or analytical problem. Individual research projects in the interpretation of archaeological data and the conservation of artifactual finds with special attention to the care and storage of collections, display in the museum setting, and the presentation of archaeologically-derived information. (Identical with ANT 402). (Under certain circumstances this course may be substituted in the Museum Studies minor for MPS 495).

MPS 403—American Material Culture (4-2-5)

Winter, 1986 (evening).

An introduction to the study of the non-literary remains of our society, past and present. Vernacular and polite architecture, ceramics, mortuary art, community and settlement patterns, dress, diet, and disease are among the topics that will be discussed. (Identical to HIS 403 and ANT 403).

MPS 410—Curatorship (5-0-5)

Winter, 1986 (evening). Prerequisite: HIS 300.

Deals with the historical background and purpose of curatorship, conservation, restoration technology, research including authentication, cataloging and organizing collections.

MPS 411—Interpretation (5-0-5)

Prerequisite: HIS 300.

A study of exhibits, educational programs and community outreach, tour planning and guiding, publications, electronic media, and other interpretation techniques.

MPS 412—Administration (5-0-5)

Spring, 1986 (evening). Prerequisite: HIS 300.

A study of organizational techniques and policy, public relations and marketing, membership, budgeting, personnel relations, security, insurance and such other topics as are pertinent.

MPS 420—An Introduction to Historic Preservation (5-0-5)

Autumn, 1985 (evening). Prerequisite: HIS 300.

A survey of the field including values, principles, practices, development of planning and organization for preservation; preservation law, economics and politics.

MPS 421—Architectural History (4-2-5)

Spring, 1987.

A study of various styles of American architecture, Georgian, Federal, Neoclassical, Eclecticism and modern; slides from Historic American Building Survey; landscape architecture. Visiting speakers and field trips will be used.

MPS 422—Historical Archaeology (5-0-5)

Winter, 1987. Prerequisite: MPS 207 or permission of the instructor.

An introduction to the archaeology of North America since the arrival of European man in the New World. Some attention will be paid to British and Continental Post Medieval Archaeology as well as to the special areas of Industrial and Nautical Archaeology. Special stress will be given to archaeological method and theory both as a perspective for the writing of history and as a component of Historic Preservation. (Identical with HIS 422).

MPS 495—Internship in Museum Studies (V-V-5)

Prerequisites: MPS 420, 411, and 412 with a "C" or better in each course.

The student will pursue an individually designed course project involving off-campus study and research in a government or private agency involved in museum work. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under the joint supervision of the sponsoring agency and his faculty sponsor.

MPS 498—Internship in Preservation Studies (V-V-5)

Prerequisites: MPS 412, 420, 421 with a "C" or better in each course.

The student will pursue an individually designed course project involving off-campus study and research in an appropriate preservation agency. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under the joint supervision of the sponsoring agency and his faculty sponsor.

Languages, Literature, and Dramatic Arts

Faculty

Strozier, Robert, Department Head
Anchors, Lorraine, Emerita
Brooks, S. Kent
Brown, Hugh
Easterling, William
Jenkins, Marvin
Jones, James Land
Killorin, Joseph
Lubs, Margaret, Emerita
McClanahan, Billie
Martin, William
Noble, David
Nordquist, Richard
Pendexter, Hugh, Emeritus
Raymond, Richard
Roth, Lorie
Suchower, John
Welsh, John
White, Charles

English Composition

Entering students should begin the required English composition sequence in their initial quarter of attendance and must not delay beginning this sequence beyond their second quarter of attendance. Designated composition courses may not be dropped without permission from Dr. Strozier, Department Head. Students who do drop these courses without Department Head approval will receive a failing grade in the class.

Exemptions from Core English

Students who wish credit exemption for English 101 must take the CLEP College Composition and Essay examination and make a score of 53 (Grade equivalent of a "B"), and make a "C" or above in English 102. Students who wish a credit exemption for English 102 must take the CLEP Analysis and Interpretation of Literature and Essay Examination and make a score of 55 (Grade equivalent of "B") and make a "C" or above in English 201. Students who make these scores on English 101 and 102 exams must make a "C" or above in English 201 to receive credit exemption for those courses.

Students who make an "A" in English 100 are eligible for English 102 pending the recommendation of their instructor and approval of the Department Head. Credit exemption is given for English 101 in such cases.

Foreign Languages

Students enrolled in the degree programs which require a foreign language must show proficiency in the appropriate language at the required level by successfully completing standardized examinations administered by members of the foreign language faculty. To receive credit for Foreign Languages 103 and 201, a student must pass the appropriate national standardized test with a score not lower than the 60th percentile for each part taken. Before repeating the exam, a student must enroll in a course in the foreign language. This requirement applies to students enrolled at Armstrong State College who take their foreign language courses on this campus and to students who, while enrolled at Armstrong State College, take their foreign language courses on another campus. Students transferring to Armstrong State College, after having completed the required foreign language sequence at another college, with grades of "C" or above, are not required to complete the proficiency examinations at Armstrong.

Exemptions from Foreign Languages

Students who wish a credit exemption for the French or Spanish requirement must make a score of 45 (Grade equivalent of a "B") on the CLEP exam, and make a "C" or better in the appropriate 201 class. Students who wish a credit exemption for German must make a score of 44 (Grade equivalent of a "B") and make a "C" or higher in German 201. For further information students should contact the Head of the Department of Languages, Literature, and Dramatic Arts.

Students majoring in English or in Drama-Speech should satisfy the college core requirements for the Bachelor of Arts degree during the freshman and sophomore years. Student must earn a grade of "C" or better in each 300 or 400 level course included in any major or minor area.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN ENGLISH

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102 or 192, 201 or 292	15
2. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. Two from: MAT 101, 103, 290	10
2. Laboratory science sequence	10
Area III	20
1. HIS 114 or 191, 115 or 192; POS 113	15
2. One course selected from: ANT 201; ECO 201, 202; PSY 101; SOC 201	5
Area IV	30
1. Foreign language sequence through 201	20
2. CS 115, and one of the following: ART 200, 271, 272, 273; DRS 227, 228; MUS 200; PHI 201	10
Area V	6
1. PE 103 or 108 and 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	45
1. ENG 326; 406 or 407	10
2. One course from: ENG 300, 302, 304, 320, 321	5
3. One course from: ENG 305, 306, 307	5
4. One course from: ENG 308, 309, 310	5
5. ENG 327 or 328	5
6. One course from: ENG 325, 340, 342, 344, 410, 422	5
7. Two courses in English literature or language	10
C. Related Field Requirements	25
Courses numbered 300 or above in the School of Arts and Sciences	25
D. Electives	20
E. Regents' Examination	0
TOTAL	191

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN ENGLISH (with teacher certification)

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102 or 192, 201 or 292	15
2. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200	5
Area II	20
1. MAT 101 and 103 or 220 or 290	10
2. Laboratory science sequence	10
Area III	20
1. HIS 114 or 191, 115 or 192; POS 113	15
2. PSY 101	5
Area IV	30
1. Foreign language sequence through 201	20
2. DRS 228 or 341	5
3. One course selected from: ANT 201; ECO 201, 202; SOC 201	5
Area V	6
1. PE 103 or 108 and 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	40
1. ENG 326, 327 or 328, 344, 406 or 407	20
2. One course from: ENG 300, 302, 304, 305, 306, 307, 320, 321	5
3. One course from: ENG 308, 309, 310	5
4. One course from: ENG 325, 410, 422	5
5. One course from: ENG 327, 328, 400, 401, 402, 490, 491	5
C. Related Field Requirements	15
1. DRS/FLM 350 or 351, and approved elective	10
2. PHI 400 or approved elective	5
D. Professional Sequences	45
1. EDN 200; EDU 310, 335, 422, 439, 481, 482, 483	40
2. PSY 301 or EDU 302	5
E. Regents' Examination	0
TOTAL	201

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN DRAMA-SPEECH

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102 or 192, 201 or 292	15
2. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101, 290	10
2. Laboratory science sequence	10
Area III	20
1. HIS 114 or 191, 115 or 192; POS 113	15
2. One course selected from: ANT 201; ECO 201; PSY 101; SOC 201	5
Area IV	30
1. Foreign language sequence through 201	20
2. DRS 227, 228	10
Area V	6
1. PE 103 or 108 and 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	45
1. DRS 341, 342, 345, 346; ENG 326	25
2. Two courses from: DRS 450, 451, 452	10
3. One course from: DRS 340, 347, 350, 351	5
4. One course from: DRS 400; ENG 400, 401, 402	5
C. Related Field Requirements	30
1. ENG 320, 321, 322, 330, 406 or 407	20
2. One course from: ANT 200, 271, 272, 273; MUS 200; PHI 201	5
3. One course from: LIN 325, 410, 422, 485	5
D. Electives	15
E. Regents' Examination	0
TOTAL	191

Minor Concentrations

The following minor concentrations are available from the Department of Languages, Literature and Dramatic Arts. For completion of each of the minors, the student must earn a grade of "C" or better in each course offered for the minor.

The minors and their requirements are:

	Hours
American Civilization	25
1. AC 382, 490	10
2. AC/ENG 308, 309, 310, or AC/HIS 351, 352, 377, 403	15
Drama-Speech	25
1. DRS 228	5
2. DRS electives at the 300-400 level	20
English	20
English electives at the 300-400 level (only 5 hours of 499)	20
Film	20
1. DRS/FLM 340, 351	10
2. DRS/FLM 350, DRS/FLM 401	10
Foreign Language	25
25 hours in any one language	25
Journalism	20
Courses selected from: ENG/JRN 340; DRS/JRN 347, 350; JRN 343, 364, 400	20
Linguistics	20
Courses selected from ENG/LIN 325, 340, 410; LIN 400, 485	20
Philosophy	20
Philosophy electives at the 300-400 level	20

OFFERINGS

American Civilization Offerings

AC 225—Introduction to American Civilization (5-0-5)

Offered on demand.

Themes and issues of American Civilization since colonial times, with emphasis on modern setting, using interdisciplinary approaches.

AC 308—American I: Beginnings through 1830 (5-0-5)

Fall.

A survey of significant American poetry and prose from the Atlantic migration to the Jacksonian Age. The course emphasizes development of a literature with uniquely American character.

AC 309—American II: Emerson through Twain (5-0-5)

Winter.

This course critically examines the art and

ideas of the major writers of the American Renaissance—Emerson, Poe, Hawthorne, Melville, Thoreau, Whitman, and Dickinson. It traces the evolution of Transcendental Romanticism as it moves into the realism of Twain.

AC 310—American III: Rise of Naturalism to the Present (5-0-5)

Spring.

The cultural and ideological bases and evolution of American Realism and Naturalism are probed in the works of Crane, Norris, and Dreiser as well as the writers of the 1960's and the 1970's. Special attention is often given to modernists like Eliot, Stevens, Faulkner, Frost, Robinson, Hemingway, and Cummings.

AC 382—Directed Reading in American Culture (5-0-5)

Offered on demand. Prerequisite: Ten hours in approved American Civilization courses.

A study of both fine and popular arts of the United States under the supervision of an American Civilization staff member.

AC 403—American Material Culture (4-2-5)

Offered alternate years. Same as ANT/MPS 403.

An introduction to the study of the nonliterary remains of our society, past and present. Vernacular and polite architecture, ceramics, mortuary art, community and settlement patterns, dress, diet, and disease are among the topics that will be discussed.

AC 490—Independent Study (5-0-5)

Prerequisite: Satisfactory completion of all other requirements of the American Civilization minor.

Designed to permit the student to pursue individual research in some aspects of American Civilization under the supervision of an American Civilization staff member.

Drama-Speech Offerings

Successful completion of ENG 101 is prerequisite to all DRS courses with the exception of DRS 227.

DRS 227—Theatre Laboratory (0-3-1)

Offered every quarter.

Practical experience in theatre. The student will work on the Masquers' production of the quarter. Only one hour of credit may be earned per quarter. The maximum total credit allowed in Theatre Laboratory is five quarter hours.

In the summer students may take up to five hours credit in DRS 227 by working part time in summer theatre workshop (DRS 450)

DRS 228—Fundamentals of Speech (5-0-5)

Offered every quarter.

Practice and theory of oral communication. Each student makes several major speeches. The physiology of the speech mechanisms is covered, and articulation is studied within the framework of the International Phonetic Alphabet.

DRS/FLM 340—Development of the Cinema (5-0-5)

Same as FLM 340.

A study of the history and development of the cinema with special emphasis on the American dominance of the medium.

DRS 341—Oral Interpretation (5-0-5)

Fall.

A practical course in the oral interpretation of poetry and prose. The techniques of literary analysis are stressed along with the vocal techniques needed to communicate an author's mood and meaning.

DRS 342—Advanced Acting (5-0-5)

Alternates with DRS 345, Winter. Prerequisites: ENG 101 plus at least two credit hours in DRS 227.

Intensive study of characterization and styles of acting from several points: historical, critical, practical, theoretical, and experimental. Emphasis on development of performance skills.

DRS 345—History of the Theatre (5-0-5)

Alternates with DRS 342, Winter.

A survey of theatrical art from its beginning to the present day. The course emphasizes the development of the physical theatre.

DRS 346—Play Production (5-0-5)

Alternating Spring quarters.

A course in the theory and practice of acting and directing, with special attention to image-making on stage. Individuals under supervision prepare and execute the production of scenes and short plays.

DRS/JRN 347—Basic TV Production (2-9-5)

Alternates with DRS 400, Spring, Fall.

A course in the theory and practice of television production styles, forms, and concepts, with special emphasis on the critical appreciation of electronic communication techniques.

DRS/FLM/JRN 350—Film as an Art (5-0-5)
Spring. Same as FLM 350 and JRN 350.
Study of film with emphasis on critical appreciation of film as an art form.

DRS/FLM 351—Film and Literature (5-0-5)
Summer. Same as FLM 351.
Studies in the translation of literature to film with emphasis on the differences of the media in form, content and perception.

DRS 400—Special Topics (1-5)-0-(1-5)
Alternates with DRS 347, Spring, Fall. Prerequisite: ENG 101.
The special subject matter in this course will be determined and announced by the professor at the time when the course is offered.

DRS/FLM 401—Topics in Film (5-0-5)
Prerequisite: Film 350 or 351.
The special subject matter of this course will be announced when the when the course is offered. Topics include: Film Genres, Auteurs, and Critical Theory.

DRS 450-451-452—Drama Workshop (0-15-5)
Summer only.
This course is summer stock theatre for credit. Students will be directed and instructed by a member of the faculty who is a professional in the theatre. All aspects of production will be studied.

DRS 490—Independent Study (1-5)-0-(1-5)
Offered on demand. Prerequisites: Senior status plus ENG 101 plus at least one 300 level DRS course. Open to transient students only with the permission of Dean of Faculty at Armstrong and the college from which the student comes.

English Offerings

ENG 025—Composition Review (5-0-5)
Institutional Credit.
A course designed to correct deficiencies in writing revealed by the Regents' Test. Prerequisite: Completion of the English core requirements of the student's program.

ENG 100—Practical Writing (5-0-5)
Offered each quarter.
This course is for the student who demonstrates competence in constructing sentences and paragraphs but who needs instruction in such skills as the use of more complicated sentence patterns, the coordination and subordination of ideas in the paragraph, and the organization of paragraphs into short essays. The student will write in different rhetorical modes using various resources, including personal experience. The course is recommended as an elective for the student whose writing skills may have dulled from lack of practice. This course may be taken as elective credit but may not satisfy the requirements in Area I of the Core.

ENG 101—Composition I (5-0-5)
Offered each quarter.
Assignment of this course is based upon the results of the Diagnostic Test for placement in beginning English courses or upon successful completion of English 99, 100, or 110. This course is for the student having demonstrable ability in reading, writing, and organizing. The student will sharpen his skills by writing themes of varying length and complexity utilizing techniques learned from intensive study of essays in four rhetorical modes (description, narration, exposition, and argumentation). The course also aims to increase the student's awareness of language itself. Readings in addition to the essay may be used.

ENG 102—Composition II (5-0-5)
Offered each quarter. Prerequisite: Satisfactory completion of ENG 101 or ENG 191.
This course continues to give the student guided practice in reading and compositional skills. To accomplish that end, the course introduces literary forms and language—fiction, poetry, drama—using readings in and study of those forms to stimulate the writing of interpretive and critical papers.

ENG 110—English as a Foreign Language (5-0-5)
Offered on demand.
This course is designed to prepare students whose native language is other than English to do normal college work in composition. Students who pass the course will be eligible for ENG 101 or, upon recommendation by the instructor, for ENG 102. Admission is by placement test or by permission of the instructor. The course may not be used in Area I of the Core unless the student meets the proficiency level for admission to ENG 102.

ENG 192—Honors Composition and Introduction to Literature (5-0-5)
Winter. Prerequisite: Minimum grade of "B" in English 101 and the recommendation of the English 101 instructor.

In this course the student will read and write in greater depth than in English 102.

ENG 201—Composition III (5-0-5)

Offered each quarter. Prerequisite: ENG 102 or ENG 192. ENG 201 is prerequisite for all ENG 300-400 courses.

This course completes the Core I composition sequence in the development of reading and writing effectiveness. Organized around literary and extra-literary materials, the course facilitates student investigation of enduring issues and ideas. Research techniques are introduced. Specific topics treated in each section of this course will be announced quarterly.

ENG 222—Topics in the Humanities (5-0-5)

Prerequisite: ENG 201.

A thematic approach to major works in the humanities designed to awaken and heighten the student's awareness of traditional and contemporary issues. Topics will be announced.

ENG 292—Honors Composition and Literature (5-0-5)

Spring. Prerequisite: Minimum grade of "C" in English 192 or minimum grade of "B" in English 102 and the recommendation of the English 102 instructor.

In this course the student will read and write in greater depth than in English 201.

Please Note: ENG 201 is prerequisite to all the following ENG courses.

ENG 300—Early English Literature. Beginnings through 1603. (5-0-5)

Alternates with ENG 302, Fall.

This course surveys major English literature from the eighth century to the death of Elizabeth I. Emphasis is on the development of a literature that reflects the diversified England of this 800-year period. Writers include: the Beowulf poet and other Old English authors, early Middle English lyrics and the major figures of the 14th century (the Pearl Poet, Chaucer, Langland, Gower), specimens of prose from the Ancrene Riwile to Mandeville and Malory, and other major figures of later times, including Spenser.

ENG 302—17th Century British Poetry and Prose: 1603-1689. (5-0-5)

Alternates with ENG 300. Fall.

A survey of the major nondramatic literature from the death of Elizabeth I to the reign of William and Mary, this course places its major emphasis upon the metaphysical and classical traditions in English poetry. Authors include Donne, Johnson, Herbert, Herrick, Crashaw, Vaughan, Marvell, Milton, Bacon, Brown, Bunyan, Dryden, and Rochester.

ENG 304—18th Century British Poetry and Prose. (5-0-5)

Spring.

A survey of British poetry and prose from 1690 to 1784, this course acquaints students with the philosophic and aesthetic concerns of the age as reflected chiefly but not exclusively in the works of Swift, Pope, and Johnson.

ENG 305—19th Century I: British Romantic Poetry and Prose (5-0-5)

Winter.

Within the context of contemporary theories of Romanticism, an examination of the works of Wordsworth, Coleridge, Keats, and Shelley. Outside of class discussion, students read and report on Blake and Byron.

ENG 306—19th Century II: British Victorian Poetry and Prose. (5-0-5)

Alternates with ENG 307. Spring.

This course focuses on the responses of novelists, poets, and prose writers to the issues troubling Victorian England: the conflict between science and religion, the faith in "progress," the growth of industrialism, the rights of the individual and of the society, and the role of the artist.

ENG 307—20th Century British Poetry and Prose. (5-0-5)

Alternates with ENG 306. Spring.

A study of major figures—James, Conrad, Lawrence, Yeats, Hardy, Auden, Thomas—within the context of continental developments (Symbolism, Proust, Rilke), Eliot, and the concept of "modernism."

ENG 308—American I: Beginnings through 1830. (5-0-5)

Fall.

A survey of significant American poetry and prose from the Atlantic migration to the Jacksonian Age, the course emphasizes development of a literature with a uniquely American character.

ENG 309—American II: Emerson through Twain. (5-0-5)

Winter.

This course critically examines the art and ideas of the major writers of the American Renaissance—Emerson, Poe, Hawthorne, Melville, Thoreau, Whitman, and Dickinson. It tra-

ces the evolution of Transcendental Romanticism as it moves into the Realism of Twain.

ENG 310—American III: Rise of Naturalism to the Present. (5-0-5)

Spring.

The cultural and ideological bases and evolution of American Realism and Naturalism are probed in the works of Crane, Norris, and Dreiser as well as the writers of the 1960's and the 1970's. Special attention is often given to modernists like Eliot, Stevens, Faulkner, Frost, Robinson, Hemingway, and Cummings.

ENG 320—British Drama: Beginnings to 1750. (5-0-5)

Alternates with ENG 322. Winter and Spring.

Medieval and Renaissance Non-Shakespearean drama: stresses the plays of Marlowe, Jonson, Beaumont and Fletcher, Middleton and Webster; and grounds the student in the conventions and traditions of Medieval and early Tudor drama.

ENG 321—British Drama II. 1630-1800. (5-0-5)

Alternates with English 320 and 322 Winter and Spring. Restoration and Eighteenth Century Drama: begins with Pre-Restoration, late Caroline drama; and stresses the plays of Ford, Shirley, Dryden, Lee, Otway, Etheridge, Wycherley, Congreve, Goldsmith, and Sheridan.

ENG 322—British, American, and Continental Drama: Ibsen to the Present. (5-0-5)

Alternates with ENG 320, Winter.

A survey of 19th and 20th century British, American and European plays. Movements include Realism, the Irish Renaissance, Expressionism, Impressionism, and Theater of the Absurd. Ibsen, Shaw, Yeats, O'Casey, Wilde, Strindberg; O'Neill, and Williams are among the dramatists studied.

ENG/LIN 325—Advanced Grammar (5-0-5)

Alternates with ENG 410, Spring.

This is a study of current approaches to grammar (including generative transformational); phonology, morphology and syntax will be studied.

ENG 326—Introduction to Literary Studies (5-0-5)

Fall.

The course aims to familiarize the English major with the vocabulary and approaches of modern literary criticism, to advance abilities in the reading and interpretation of literary texts, and to promote understanding of the tools of literary research and writing.

ENG 327—World Literature I (5-0-5)

Winter. Alternate years.

A study of major works and movements in world literature through the Renaissance.

ENG 328—World Literature II (5-0-5)

Spring. Alternate years.

A study of major works and movements in modern world literature.

ENG 329—Ancient Epic and Drama (5-0-5)

Spring. Alternate years.

A study of major works of antiquity. Authors include Homer, Aeschylus, Sophocles, Euripides, and other significant figures.

ENG/JRN 340—Advanced Composition (5-0-5)

Alternates with ENG 342. Fall, Prerequisite: ENG 201 or consent of instructor.

The study of expository and argumentative techniques.

ENG 342—Creative Writing (5-0-5)

Alternates with ENG 340, Fall. Prerequisite: ENG 201 or consent of instructor.

Students submit manuscripts—stories, poems, plays—which they then critique by written statement and by class discussion under the guidance of the instructor.

ENG 344—Composition for Pre-Professionals (5-0-5)

Alternates with ENG 422. Fall and Spring.

This course provides students with the opportunity to polish and diversify their writing skills. It includes the analysis of diverse prose models and introduces such topics as the theory and practice of technical writing and communication skills, topics appropriate for students interested in such fields as education, business, science and law.

ENG 400—Special Topic (5-0-5)

The special subject matter in this course will be announced when the course is offered. Subjects currently offered: Modernism: 1880-1940; Apartheid in Perspective; Ideology and Propaganda.

ENG 401—Special Genre (5-0-5)

The special subject matter in this course will be announced when the course is offered. Genres currently offered: American Novel Since WWII; New England Poets; Victorian Novel.

ENG 402—Special Author (5-0-5)

The special subject matter in this course will be announced when the course is offered. Authors currently offered: Faulkner, Eliot and Aiken, Twain, Hardy, Keats and Hopkins.

ENG 406—Shakespeare I (5-0-5)

Fall.

A comprehensive study of the tragedies, comedies, and history plays drawn from *Taming of the Shrew, Merchant of Venice, Merry Wives of Windsor, Much Ado About Nothing, As You Like It, Troilus and Cressida, Measure for Measure, Richard II, Henry IV Parts 1 and 2, Henry V, Titus Andronicus, Julius Caesar, King Lear, Macbeth, Antony and Cleopatra, and Coriolanus.*

ENG 407—Shakespeare II (5-0-5)

Spring.

A second comprehensive study of the tragedies, comedies and history plays drawn from *A Comedy of Errors, Love's Labor's Lost, Romeo and Juliet, Midsummer Night's Dream, Twelfth Night, Hamlet, Othello, A Winter's Tale, The Tempest, Pericles, Cymbeline, All's Well That Ends Well, Two Gentlemen of Verona, King John, Timon of Athens, Richard III, Henry VI, and Henry VIII.*

ENG/LIN 410—History of English Language (5-0-5)

Alternates with ENG/LIN 422, Winter.

A study of the English language from its beginnings in the fifth and sixth centuries to its world-wide expansion in the 20th, this course traces the language chronologically from Old to Middle to Modern English. Emphasis is on the phonetic, syntactic, and lexical changes with weight given both to internal and external influences.

ENG/LIN 422—Approaches to Language (5-0-5)

Winter.

A survey of the components of language study as well as the various approaches to language, meaning, and syntax. Relationships between the teacher's language study and classroom implementation of various facets of it will be explored.

ENG 490—Independent Study (1-5)-0-(1-5)

Prerequisites: Senior status and ENG 201. This course is available to transient students under the following conditions: approval of the Dean of the Faculty and Dean of the college from which the student comes.

ENG 491—Independent Study (1-5)-0-(1-5)

Prerequisites: Senior status and ENG 201. This course is available to transient students under the following conditions: approval of the Dean of the Faculty and Dean of the college from which the student comes.

ENG 499—Internship (Up to 15 hrs)

Offered by special arrangement. Prerequisite: Junior status, a 2.5 GPA, a supervisory staff member, recommendation of the departmental Internship Committee, and approval of the Department Head. May be repeated to a maximum of 15 credit hours.

The student will pursue an individually designed project involving off-campus work, study, and/or research. Projects will be under the joint supervision of the sponsoring institution and the staff member. Fifteen hours credit requires forty hours a week at the sponsoring institution. Ten hours credit requires twenty-five hours a week; five hours credit requires fifteen hours a week.

Film Offerings

FLM/DRS 340—Development of the Cinema (5-0-5)

Winter.

A study of the history and development of the cinema with special emphasis on the American dominance of the medium.

FLM/DRS 350—Film as an Art (5-0-5)

Same as JRN 350.

Study of film with emphasis on critical appreciation of film as an art form.

FLM/DRS 351—Film and Literature (5-0-5)

Studies in the translation of literature to film with emphasis on the differences of the media in form, content, and perception.

FLM/DRS 401—Topics in Film (5-0-5)

Prerequisite: FLM 350 or 351.

The special subject matter of this course will be announced when the course is offered. Topics include: film genres, auteurs, and critical theory.

Foreign Language Offerings

FRE 101-102-103—Elementary French One, Two, Three (5-0-5)

Three courses offered each year.

These courses provide the student with the elements of French reading, composition, and conversation. The approach is primarily oral,

and daily practice with tape recordings is required.

FRE 201—Intermediate French (5-0-5)
Prerequisite: Three quarters of college French or three years of high school French are required. Emphasis is continued on the reading of text as well as on oral and composition skills.

FRE 300—Special Topics in the French Language (5-0-5)
Offered on demand. Prerequisite: FRE 201.

FRE 305—Special Topics in French Literature (5-0-5)
Offered on demand. Prerequisite: FRE 201.

FRE 307—Special Topics in French Culture (5-0-5)
Offered on demand. Prerequisite: FRE 201.

FRE 351-352-353—Study Abroad in France (V-V-15)
Prerequisite: FRE 103.
These courses are a summer quarter's residence and study in France in conjunction with the Studies Abroad Program of the University System of Georgia. The program is in Paris for a period of 8-9 weeks. During this time the student will receive intensive instruction in language and culture and will be expected to engage in co-curricular activities sponsored by the University of Paris and USG.

FRE 490—Independent Study (1-5)-0-(1-5)
Prerequisites: Senior status and FRE 201. Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

GER 101-102-103—Elementary German One, Two, Three (5-0-5)
Three courses offered each year.
Elements of reading and writing; basic vocabulary; simple conversation; essentials of grammar.

GER 201—Intermediate German (5-0-5)
Prerequisite: Three quarters of college German or three years of high school German are required. Emphasis is continued on reading of text as well as on oral and composition skills.

GER 300—Special Topics in the German Language (5-0-5)
Offered on demand. Prerequisite: GER 201.

GER 305—Special Topics in German Literature (5-0-5)
Offered on demand. Prerequisite: GER 201.

GER 307—Special Topics in German Culture (5-0-5)
Offered on demand. Prerequisite: GER 201.

GER 351-352-353—Study Abroad in Germany (V-V-15)
Prerequisite: GER 103.
These courses are a summer quarter's residence and study in Germany in conjunction with the Studies Abroad Program of the University System of Georgia. The program is at the University of Erlangen-Nurnberg for a period of 8-9 weeks. During this time the student will receive intensive instruction in language and culture and will participate in University sponsored activities.

GER 490—Independent Study (1-5)-0-(1-5)
Prerequisite: Senior status and GER 201. Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

LAT 101-102-103—Elementary Latin One, Two, Three (5-0-5)
Three courses offered each year.
Essentials of grammar; readings from selected Latin authors.

LAT 201—Intermediate Latin (5-0-5)
Further readings in Latin literature with special emphasis on Vergil and Ovid.

LAT 300—Readings in Latin (5-0-5)
Offered on demand.
The students may choose readings relevant to their areas of interest out of the 2,000 years of Latinity from Plautus to the recent encyclicals.

LAT/CLA 351-352-353—Study Abroad in Rome and Athens (V-V-15)
These courses are a summer quarter's residence and study in Rome and Athens in conjunction with the Studies Abroad Program of the University System of Georgia. They are taught in English and require no knowledge of Latin or Greek. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati the student experiences at first hand the reality of life in the ancient world.

RUS 101-102-103—Elementary Russian One, Two, Three (5-0-5)

Three courses offered each year.

These courses provide the student with the elements of Russian reading, composition, and conversation.

RUS 201—Intermediate Russian (5-0-5)

Offered on demand. Prerequisite: RUS 103.

Emphasis is continued on reading of texts as well as on oral and composition skills.

SPA 101-102-103—Elementary Spanish One-Two-Three (5-0-5)

Three courses offered each year.

These courses provide the student with the elements of Spanish reading, composition, and conversation.

SPA 201—Intermediate Spanish (5-0-5)

Prerequisite: Three quarters of college Spanish or three years of high school Spanish are required. Emphasis is continued on reading of texts as well as oral and composition skills.

SPA 300—Special Topics in the Spanish Language (5-0-5)

Offered on demand. Prerequisite: SPA 201.

SPA 305— Special Topics in Spanish Literature (5-0-5)

Offered on demand. Prerequisite: SPA 201.

SPA 307—Special Topics in Spanish Culture (5-0-5)

Offered on demand. Prerequisite: SPA 201.

SPA 351-352-353—Study Abroad in Spain (V-V-15)

Prerequisite: SPA 103.

These courses are a summer quarter's residence and study in Spain in conjunction with the Studies Abroad Program of the University System of Georgia. The program is in Segovia for a period of 8-9 weeks. During this time the students will receive intensive instruction in language and culture which will be complemented by a number of excursions.

SPA 490—Independent Study (1-5)-0-(1-5)

Offered on demand. Prerequisites: Senior status and SPA 201. Open to transient students only with the permission of the Dean of Faculty at Armstrong and the college from which the student comes.

Journalism Offerings

JRN 340—Advanced Composition (5-0-5)

Alternates with ENG 342. Fall. Prerequisite: ENG 201 or consent of instructor. Same as ENG 340.

The study of expository and report techniques.

JRN 343—Journalistic Writing (5-0-5)

Winter. Prerequisite: ENG 201.

Investigation of and intensive practice in the techniques of modern journalism with emphasis on writing for newspapers and periodicals.

JRN 347—Basic TV Production (2-9-5)

Alternates with DRS 400, Spring, Fall. Same as DRS 347.

A course in the theory and practice of television production styles, forms, and concepts, with special emphasis on the critical appreciation of electronic communication techniques.

JRN 350—Film as an Art (5-0-5)

Spring. Same as FLM/DRS 350.

Study of film with emphasis on critical appreciation of film as an art form.

JRN 364—Copy Editing and Layout (2-0-2)

Fall. Prerequisite: JRN 340 or 343 or permission of instructor.

This is an intensive workshop in preparing copy for the press. Emphasis is on editing, on rewriting, and on makeup of pages.

JRN 400—Topics in Journalism (3-0-3)

Fall. Prerequisite: JRN 340 or 343 or permission of instructor.

This is a seminar on topics of interest and utility to journalists in all the media. Individual topics will be announced. The course may be taken for credit more than once as topics change.

Linguistics Offerings

LIN 325—Advanced Grammar (5-0-5)

Alternates with ENG 410, Spring. Same as ENG/LIN 325.

This is a study of current approaches to grammar (including generative transformational); phonology, morphology, and syntax will be studied.

LIN 340—Advanced Composition (5-0-5)

Alternates with ENG 342, Fall. Prerequisite: ENG 201 or consent of instructor. Same as ENG/JRN 340.

A study of expository and report techniques.

LIN 400—Topics in Linguistics (3-0-3)
Prerequisite: ENG/LIN 325 or 410 or LIN 485 or permission of the instructor.

A seminar in subjects of interest in both theoretical and applied linguistics. Topics will be announced, and the course may be taken more than once for credit as topics change.

LIN 410—History of the English Language (5-0-5)
Alternates with ENG 325, Spring. Same as ENG/LIN 410.

Philosophy Offerings

Please Note: ENG 101 is prerequisite to all following PHI courses.

PHI 200—Nature, Culture and Choice (5-0-5)
Offered on demand.

The central notion is that man transforms nature into culture by means of symbol systems. The course asks what needs of human nature are served thereby and what ethical consequences are involved. It stresses the assumptions and methods defining the humanities and science and, in ethics, in focuses on professional issues.

PHI 201—Introduction to Philosophy (5-0-5)
The fundamentals of philosophy, the meaning and function of philosophy, and the vocabulary and problems of philosophy. Includes a survey of the basic issues and major types of philosophy and shows the sources in experience, history, and representative thinkers.

PHI 301—History of Philosophy: Ancient and Medieval (5-0-5)
Offered on demand.

An historical introduction to philosophy, tracing the development of European philosophy from the early Greeks through the Middle Ages, with emphasis on selected works of major philosophers.

PHI 302—History of Modern Philosophy (5-0-5)
Offered on demand.

European philosophy from the Renaissance through Kant, emphasizing selected works of major philosophers.

PHI 303—19th and 20th Century Philosophy (5-0-5)
Offered on demand.

A study of the major philosophers in philosophical movements of the 19th and 20th centuries.

PHI 400—Special Topics (1-5)-0-(1-5)
Offered on demand. Prerequisite: One 200 or 300 level philosophy course.

The specific subject matter in this course will be determined and announced by the professor at the time when the course is offered. Courses currently being offered are: Aesthetics and Philosophy of Religion.

PHI 490—Independent Study (1-5)-0-(1-5)
Offered on demand. Prerequisite: Senior status and one 300-level philosophy course.

The student, with the advice and consent of his supervising professor and of the department head, will select the topic for supervised independent study and will submit a prospectus for department approval before the quarter in which the course is to be taken. Open to transient students only with permission of the Dean of Faculty at Armstrong and the college from which the student comes.

Mathematics and Computer Science

Faculty
Vacant, Department Head
Barnard, Jane
Cyphert, Daniel
Findeis, John
Hansen, John
Harbin, Mickie Sue
Hudson, Anne
Kilhefner, Dale
Munson, Richard
Norwich, Vicki
Richters, Stephen
Shipley, Charles
Stocker, Erich
Wynn, William, Emeritus

The department offers two majors, in computer science and in the mathematical sciences, under the Bachelor of Science degree

program. Under the major in the mathematical sciences, students may complete major options entitled "Mathematics," "Applied Mathematics," "Mathematics Education," and "Computer Science." The mathematics education option is specifically designed to prepare teachers of secondary mathematics and is an approved program for the Georgia Teacher's Professional Four-Year Certificate (T-4). The Department of Mathematics and Computer Science also participates in the Dual-Degree Program of Armstrong State College and the Georgia Institute of Technology, under which students may, in five years of study, earn simultaneously the B.S. degree in the mathematical sciences (applied mathematics) from Armstrong and the Bachelor's degree in any one of a number of fields of engineering from Georgia Tech.

The department also offers minors in computer science and mathematics. Students in any major program of study whatever (either two-year or four-year) can augment their major with either of these minors. The minor in computer science requires 25 quarter hours of computer science courses. These courses must consist of CS 142, 231, 242, 301 and 308.

The mathematics minor requires 25 hours of mathematics courses. These courses must consist of MAT 206, 207, 208, and 10 quarter hours selected from CS 260, and 300-400 level mathematics courses, excluding MAT 391 and 393.

To earn the B.S. degree in the mathematical sciences or computer science, a student must successfully complete with a grade of C or better all mathematics and computer science courses in Area IV of the core and all courses in Section B—Courses in the major field.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICAL SCIENCES

Hours

A. General Requirements 96
- Area I 20
  1. ENG 101, 102, 201 15
  2. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
- Area II 20
  1. MAT 101, 103 10
  2. One of the sequences: BIO 101, 102; CHE 128, 129 (required for dual degree students); PHY 217, 218 10
- Area III 20
  1. HIS 114, 115 10
  2. POS 113 and one course selected from: PSY 101 (required for math education option); SOC 201; ECO 201, 202; ANT 201 10
- Area IV 30
  1. MAT 206, 207 10
  2. CS 142 5
  3. Two of the following: MAT 208; CS 242, 260 10
  4. HIS 251 or 252 5
- Area V 6
  1. PE 117 and 103 or 108 3
  2. Three activity courses 3

B. Courses in the Major Field 51-55

Each student majoring in the mathematical sciences must select one of the following four options and complete its requirements:

Option One—Mathematics:
1. MAT 309, 311, 316, 317, 401, 402, and 4 quarter hours of approved electives 30
2. Approved mathematics and/or computer science electives* 15
3. One foreign language or computer science sequence 10

Option Two—Applied Mathematics
1. MAT 309, 316, 341, 342, or 353 18-19
2. MAT 321 or CS 246* 5
3. PHY 217, 218, 219; or four of the courses: MAT 317, 321, 322, 346, 353, 401, 406, 490** 16-19
4. Approved mathematics and/or computer science electives (300-400 level) 13-16

Option Three—Mathematics Education
1. MAT 311, 316, 321, 336, and 416 or 470 23

00232. Approved mathematics and/or computer science electives 7
3. PSY 301 5
4. EDN 200, 310, 335, and 441 20

Option Four—Computer Science
1. CS 260, 301, 302, 305, 360 25
2. MAT 309, 341, 321 14

3. Three courses selected from: MAT 316, 342, 346, 353, 490**, CS 401, 411, 490** 12-15

C. Related Field Requirements 15
In addition to the above requirements, each student majoring in the mathematical sciences must complete fifteen quarter hours of approved courses in one field of study related to his major. Students completing the major requirements under option three must meet this requirement through student teaching (Education 470, 480, 490).

D. Electives*** 25-29

E. Regents' and Exit Examinations 0

TOTAL 191

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* It is recommended that 10 of these hours be in mathematics.

** Subject to the approval of the department head.

***Students pursuing the mathematics educaton option, in order that their total program of study will conform to system-wide requirements for degree programs leading to T-4 teacher certification, must select one course from each of the following blocks of courses:

A. ART 200, 271, 272, 273; MUS 200; DRS 228;

B. ANT 201, ECO 201, SOC 201

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE WITH A MAJOR IN COMPUTER SCIENCE

Hours

A. General Requirements 96
- Area I 20
  1. ENG 101, 102, 201 15
  1. One course selected from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
- Area II 20
  1. MAT 101, 103 10
  2. One of the sequences: BIO 101, 102; CHE 128, 129; PHY 217, 218 10
- Area III 20
  1. MAT 101, 103 10
  2. One of the sequences: BIO 101, 102; CHE 128, 129: PHY 217, 218 10
- Area III 20
  1. HIS 114, 115 10
  2. POS 113 and one of the courses: PSY 101; SOC 201; ECO 201, 202; ANT 201 10
- Area IV 30
  1. MAT 206, 207 10
  2. CS 142, 231, 242 15
  3. MAT 260 5
- Area V 6
  1. PE 117 and 103 or 108 3
  2. Three activity courses 3

B. Courses in Major Field 50
  1. MAT 321 10
  2. CS 301, 312, 305, 308, 342 25
  3. Either CS 331, 431, 334 or 401; or CS 360, 401, 401 or 445 15
  4. Five quarter hours of approved computer science electives 5

C. Courses related to Major 15
  1. ENG 344 5
  2. Ten hours of approved electives 10

D. Electives 25

E. HIS 251 or 252 5

F. Regents and Exit Examinations 0

OFFERINGS

Mathematics Offerings

MAT 101—College Algebra (5-0-5)

Fall, Winter, Spring, Summer. Prerequisite: Each student must have attained at least one of the following prior to enrolling: (a) a score of at least 420 on the mathematics portion of the SAT: or (b) a score of at least 20 on the Mathematics Diagnostic Test; or (c) a grade of "P" in MAT 099.

In addition, it is recommended that the student have successfully completed in high school two courses of algebra and one course of geometry.

Dates on which the Mathematics Diagnostic test is administered are given in the academic calendar in the front of this Catalog. Present test: Swokowski, *Fundamentals of College Algebra.*

Real number arithmetic; polynomial and rational expressions; linear and quadratic equations; functions and graphs; inequalities; absolute value; sequences and summation notation; matrices, determinants, and systems of equations; the binomial theorem; techniques of counting and elementary probability. (May

be exempted by examination with academic credit awarded)

MAT 103—Pre-Calculus Mathematics (5-0-5)

Fall, Winter, Spring, Summer. Prerequisite: MAT 101, or a score of at least 550 on the mathematics portion of the SAT, or permission of the department head. Present text: Swokowski, Functions and Graphs.

Functions; polynomial, rational, exponential, logarithmic, trignometric, and inverse trigonometric functions; trigonometric identities; law of sines and cosines; complex numbers (May be exempted by examination with academic credit awarded.)

MAT 195—Applied Finite Mathematics (5-0-5)

Spring. Prerequisite: MAT 101. Present text: Barnett, *Finite Mathematics for Management, Life, and Social Sciences.*

A survey of finite mathematics, including mathematics of finance, probability, linear programming, and an introduction to games and decisions; applications are stressed throughout.

MAT 206—Calculus I (5-0-5)

Fall, Winter, Spring, Summer. Prerequisite: MAT 103, or a score of at least 600 on the mathematics portion of the SAT, or permission of the department head. Present text: Edwards and Penney, *Calculus and Analytical Geometry.*

Functions; the derivative and its applications, antidifferentiation; the definite integral.

MAT 207—Calculus II (5-0-5)

Fall, Winter, Spring, Summer. Prerequisite: MAT 206. Present text: Edwards and Penney. *Calculus and Analytic Geometry.*

Techniques and applications of integration; conic sections and polar coordinates.

MAT 208—Calculus of Several Variables I (5-0-5)

Fall, Winter, Spring. Prerequisite. MAT 207. Present text: Edwards and Penney, *Calculus and Analytic Geometry.*

Parametric curves and vectors in the plane; indeterminate forms, Taylor's formula, and improper integrals; infinite series; vectors, curves, and surfaces in space; partial differentiation.

MAT 220—Elementary Statistics (5-0-5)

Fall, Winter, Spring, Summer. Prerequisite: MAT 101. Present text: Freund, *Statistics: A First Course.*

Measures of central tendency and dispersion; probability distributions; inferences concerning means, analysis of variance; correlation; linear regression. (May be exempted by examination with academic credit awarded)

MAT 260—Discrete Structures (5-0-5)

Fall, Winter, Spring. Prerequisites: MAT 103 and CS 110 or 146.

Elementary logic, naive set theory, relations and functions, Boolean algebras, ordering relations, graph theory.

MAT 290—Topics in Mathematics (5-0-5)

Fall, Winter, Spring. Prerequisite: MAT 101.

A terminal course of selected topics designed to portray the history, philosophy, and aesthetics of mathematics, and to develop and appreciation of the role of mathematics in western thought and contemporary culture.

MAT 309—Calculus of Several Variables II (5-0-5)

Fall, Spring. Prerequisite: MAT 208. Present text: Edwards and Penney, *Calculus and Analytic Geometry.*

Multiple integrals and their applications; vector fields; line and surface integrals; Green's theorem; the Divergence theorem; Stokes theorem; differential equations.

MAT 311—Abstract Algebra (5-0-5)

Fall (even years). Prerequisites: MAT 208, 260. Present text: Hillman and Alexanderson, *A First Undergraduate Course in Abstract Algebra.*

Elementary properties of integers; groups, rings, and fields; mappings, homomorphisms, kernals, and quotient structures.

MAT 316—Linear Algebra I (5-0-5)

Winter. Prerequisite: MAT 208, 260. Present text: Kolman, *Elementary Linear Algebra.*

Linear systems and matrices; vector spaces; linear independence, rank of a matrix; linear transformations; determinants; linear product spaces; introduction to eigenvalues and eigenvectors.

MAT 317—Linear Algebra II (3-0-3)

Spring (odd years). Prerequisite: MAT 316.

Eigenvalues and eigenvectors, diagonalization, real quadratic forms; additional applications of linear algebra to other areas of the mathematical, physical and social sciences.

MAT 321—Probability & Mathematical Statistics (5-0-5)

Fall (even years). Prerequisites: MAT 207. MAT/CS 260.

Probability; random variables; discrete and continuous probability distributions; empirical distributions; random sampling; expectation; confidence intervals; tests of hypotheses; correlation and regression; one-way ANOVA; chi-square tests.

MAT 322—Probability & Mathematical Statistics II (4-0-4)

Winter (odd years). Prerequisite MAT 321.

Multiple regression; maximum likelihood estimates; likelihood ratio tests; small sample distributions; two-way ANOVA; nonparametric methods; Bayesian inference.

MAT 336—Modern Geometry (5-0-5)

Fall (odd years). Prerequisites: MAT 208, 260. Present text: Moise, *Elementary Geometry From Advanced Standpoint.*

A survey of topics from Euclidean geometry.

MAT 341-342—Differential Equations I, II (4-0-4)

341-Winter; 342-Spring. Prerequisite: MAT 208. Present text: Boyce and Deprima, *Elementary Differential Equations and Boundary Value Problems.*

Ordinary differential equations; series solutions; systems of first order differential equations; the Laplace transform; introduction to Fourier series; partial differential equation; Sturm-Liouville theory; applied problems.

MAT 346—Mathematical Modeling and Optimization (4-0-4)

Fall (odd years). Prerequisites: MAT 208, 260. Present text: Hillier & Lieberman, *Introduction to Operations Research.*

Design, solution, and interpretation of mathematical models of problems in the social, life, and management sciences. Topics chosen from linear programming, dynamic programming, scheduling theory, Markov chains, game theory, queuing theory, and inventory theory.

MAT 353—Numerical Analysis (4-3-5)

Summer (even years). Prerequisites: MAT 207 and CS 110, 142, or 246. Present text: Conte and DeBoor, *Elementary Numerical Analysis.*

Numerical error; polynomial interpolation; systems of linear equations; numerical integration and numerical solution of differential equations; matrix inversion; evaluation of determinants; calculation of eigenvalues and eigenvectors; boundary value problems.

MAT 360—Mathematical Logic (5-0-5)

Spring (odd years). Prerequisites: MAT 207, 260. Present text: Hunter, *Metalogic: An Introduction to the Metatheory of Standard First Order Logic.*

The elementary statement and predicate calculus; formal systems; applications of logic in mathematics.

MAT 391—Mathematics for the Elementary School Teacher (5-0-5)

Winter, Prerequisite: MAT 101 and Admission to Teacher Education.

A study of the mathematics in the elementary curriculum, with emphasis on appropriate methods of teaching for understanding through active involvement of the learner. Frequent use of wide range of concrete manipulatives to embody concepts in arithmetic of whole numbers and fractions and in geometry and measurement. Directed field experience. (Credit will not apply toward a degree in the mathematical sciences.)

MAT 393—Teaching of Middle School/ General Mathematics (5-0-5)

Summer (even years). Prerequisite: Ten quarter hours of college mathematics numbered 101 or above and Admission to Teacher Education. Present text: Sobol and Maletsky, *Teaching Mathematics: A Sourcebook of Aids, Activities and Strategies.*

Problems of teaching traditional topics, such as fractions, decimals, percentage, measurement (especially in the metric system), and informal geometry. Emphasis on incorporating drill and practice in necessary skills with fresh topics like probability and statistics, and with appropriate games and laboratory activities. (Credit will not apply toward a degree in the mathematical sciences.).

MAT 400—Putnam Seminar (0-2-1)

Fall. Prerequisites: MAT 208, 260.

A variety of mathematical problems, considered with the aim of developing problem solving techniques.

MAT 401-402—Advanced Calculus I, II (4-0-4)

401-Fall (odd years); 402—Winter (even years). Prerequisites: MAT 208, 260. Present text: Goldberg, *Methods of Real Analysis.*

The real number system; sequences; limits of functions; the Bolzano-Weierstrass theorem; compactness; uniform continuity; the derivative; the Riemann integral; Euclidean n-space; sequences of functions; the Weierstrass approximation theorem; series; elementary functions.

MAT 406—Functions of a Complex Variable (5-0-5)

Spring (even years). Prerequisites: MAT 208, 260. Present text: Churchill, *Complex Variables with Applications.*

Complex numbers; elementary functions and transformations; the Cauchy theory; conformal mapping; Riemann's mapping theorem.

MAT 416—Theory of Numbers (3-0-3)

Fall (odd years). Prerequisites: MAT 208, 260. Present text: Burton, *Elementary Number Theory.*

Divisibility and congruence; quadratic reciprocity; diophantine equations; number-theoretic functions and their applications; selected advanced topics from algebraic and analytic number theory.

MAT 436—Topology (3-0-3)

Spring (even years). Prerequisite: MAT 401. Present text: Dugundji, *Topology.*

Topological spaces and homeomorphisms; separability; compactness; connectedness; completeness; metrizability; introduction to homotopy theory.

MAT 470-History of Mathematics (3-0-3)

Fall (even years). Prerequisites: MAT 208, and six quarter hours of mathematics courses with course numbers greater than 309. Present text: Eves, *An Introduction to the History of Mathematics.*

A survey of the development of mathematics from its empirical beginnings to its present state.

MAT 490—Special Topics (1-5)-0-(1-5)

Offered by special arrangement. Prerequisites: Consent of the instructor and permission of the department head.

Individual readings and research under the direction of a member of the mathematics faculty.

MAT 496-497-498—Internship in Mathematics ((0-1)-(12-15)-5)

Offered by special arrangement. Prerequisite: Permission of the department head.

Experience, in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of the faculty and appropriate off-campus supervisory personnel. (Open to transient students only with permission of the Dean of Faculty at Armstrong and that of the appropriate official of the college from which the student comes.)

Computer Science Offerings

CS 110—Introduction to Computer Programming (4-3-5)

Summer. Prerequisite: MAT 101 Present text: Bent & Sethares, *BASIC.*

BASIC programming and program structure; elementary logic and Boolean algebra; algorithms; flow charts; debugging; computer solutions of numeric and non-numeric problems, characteristics and applications of computers in modern society.

CS 115—Introduction to Computer Concepts and Applications (4-3-5)

Fall, Spring. Prerequisite: MAT 101

The study of hardware and software components of computers, elementary programming, and the impact of the computer on society. Discussion of the capabilities and the limitations of computers, and the kinds of problems that are best solved by computers. Experience with developing and modifying algorithms to solve such problems. Emphasis on the major uses of computers. This course is designed for the non-computer science major. It may not be applied as part of a language sequence.

CS 136—RPG Programming (4-3-5)

Summer. Prerequisite: CS 110, 142 or 146. Present text: Myers, *RPG II & RPG III with Business Applications.*

Introduction to the language and programming applications for small computer systems using RPG.

CS 142—Introduction to Programming Principles with Pascal (4-3-5)

Fall, Winter, Spring, Summer. Prerequisite: MAT 101.

Structured programming; the Pascal programming language: basic syntax, input/output, debugging, functions and procedures, fundamental data types.

CS 225—Statistical Programming for the Social Sciences (3-4-5)

Winter (odd years). Prerequisites: MAT 220 or 321 and CS 110 or 142. Present text; Klecka, Nie, Hull, *SPSS Primer.*

Uses of computers in statistical analysis, including the study of statistical methods, the programming of statistical analyses, and data analysis using packaged systems.

CS 231—Programming Principles with COBOL (4-3-5)

Fall, Winter, Spring, Summer. Prerequisite: CS 142. Present text: Finegold, *Fundamentals of Structured COBOL Programming.*

The COBOL programming language: basic syntax, input/output, debugging, table-handling, sorting, searching, sequential file manipulation, structured programming for COBOL; JCL for COBOL programs.

CS 242—Advanced Programming Principles with Pascal (4-3-5)

Fall, Winter, Spring, Summer. Prerequisites: MAT 103 and CS 142.

Advanced programming concepts in Pascal: recursion, variant records, record-oriented input/output and dynamic structures associated with pointers such as linked lists, queues, stacks and trees.

CS 246—Fortran Programming (4-3-5)

Winter, Summer. Prerequisites: MAT 103 and CS 110 or CS 142.

Present text: Lehmkuhl, *Fortran 77, A Top Down Approach.*

Algorithmic processes of computer problem solving in a scientific context; elementary logic and Boolean algebra; FORTRAN programming language: syntax, arrays, input/output, subroutines, functions.

CS 260—Discrete Structures (5-0-5)

Fall, Winter, Spring. Prerequisites: MAT 103 and CS 142.

Elementary logic; naive set theory; relations and functions; Boolean algebras; ordering relations; graph theory.

CS 296—Computer Literacy for Educators (2-3-3)

Winter. Prerequisites: MAT 101 and admission to Teacher Education.

The study of hardware and software components of computers, elementary programming, and the impact of computers on curriculum. Discussion of the capabilities and limitations of computers, and the kinds of problems that are best solved by computers. Experience with developing and modifying algorithms to solve such problems. Emphasis on instructional uses of microcomputers. This course is designed for the non-computer science major. It may not be applied as part of a language sequence.

CS 301—Computer Organization and Programming (4-3-5)

Fall, Winter, Spring, Summer. Prerequisites: CS 231 or CS 242. Present text: *Kuo, Assembler Language for FORTRAN, COBOL, and PL/1 Programmers.*

Introduction to systems programming via in-depth coverage of assembler programming; operating systems; addressing techniques; internal storage structure; machine-level representation of instructions and data; subroutines; I/O; linkers and loaders; macro-facilities; mass data storage facilities.

CS 305—Computer Systems (5-0-5)

Fall, Spring. Prerequisite: CS 301. Present text: Tanenbaum, *Structured Computer Organization.*

Hardware and software components of digital computing systems, with emphasis on system software and details of hardware organization. Topics include system structure, data representation, processors, control, storage, input/output interrupts and microprogramming.

CS 308—Introduction to File Processing (5-0-5)

Fall, Spring. Prerequisites: CS 231 and CS 242.

An introduction to the concepts and techniques of structuring data on bulk storage devices; foundation for applications of data structures and file processing techniques.

CS 309—File Processing with COBOL (4-3-5)

Summer, Prerequisite: CS 308.

COBOL programming techniques for processing sequential, indexed (ISAM and VSAM), direct, and relative files; control language used for the execution of file processing programs; utility programs for effective file processing.

CS 312—Algorithms and Data Structures (4-3-5)

Winter, Summer. Prerequisites: CS 242, 260, 301.

Internal representation for arrays, queues, trees, stacks, graphs, and lists; algorithms for the manipulation of data structures; complexity analysis of algorithms; concepts related to the interaction between data structures and storage structures for the generating, developing and processing of data; algorithms for memory management.

CS 331—Systems Analysis and Design (3-4-5)

Winter. Prerequisite: CS 308 and ENG 344. Present text: Weinberg, *Structured Analysis.*

Principles and methodology of structured systems analysis and design, including personnel and machine requirements, system specifications, analysis and design tools and techniques, system life cycle management. A student project which implements these techniques will be required.

CS 334—Introduction to Software Engineering (3-4-5)

Spring. Prerequisite: CS 312, CS 331, CS 342. Present text: Sommerville, *Software Engineering.*

Principles and techniques of designing and developing engineered software, including program structures, design specifications, resource limitations, reliability, correctness, debugging, testing, modular program construction and user interfaces. A student project which implements these techniques will be required.

CS 342—Comparative Languages (4-3-5)

Fall, Spring. Prerequisites: CS 242, 260, 301. Present text: Organick, Forsythe and Plummer, *Programming Language Structures.*

Comparative study of programming languages including facilities for recursion, procedures, storage allocation techniques, string processing, and passing of parameters.

CS 353—Numerical Analysis (4-3-5)

Summer (even years). Prerequisites: MAT 207 and CS 142 or 246. Present text: Conte and DeBoor, *Elementary Numerical Analysis.*

Numerical error; polynomial interpolation; systems of linear equations; numerical integration and numerical solution of differential equations; matrix inversion; evaluation of determinants; calculation of eigenvalues and eigenvectors; boundary value problems.

CS 360—Computer Logic Design (5-0-5)

Winter. Prerequisites: CS 260 and 305. Present text: Mano, *Computer Logic Design.*

Theory and design of digital logic systems at the gate level. A variety of techniques for the reduction of digital circuits will be studied.

CS 401-402 Operating System Concepts I, II (5-0-5)

401-Winter; 402-Spring. Prerequisite: CS 312, CS 305. Present text: Peterson & Silberschatz, *Operating Systems Concepts.*

Design and analysis of operating systems: process management; memory management; processor management, auxiliary storage management. Case studies in Unix and other existing systems.

CS 411—Data Communications (5-0-5)

Summer. Prerequisite: CS 305. Present text: Tanenbaum, *Computer Networks.*

Communications media; codes; data transmission; multiplexing; protocols; layered networks.

CS 431—Control and Organization of Information (5-0-5)

Fall. Prerequisites: ENG 344, CS 308, 312. Present text: Kroenke, *Database Processing.*

Information analysis and logical design of information systems and data bases; consideration of hardware, access methods, management, and control functions, communicating with the data base, and integrated systems.

CS 434—Introduction to Software Engineering (3-4-5)

Spring. Prerequisite: CS 312, CS 342. Present text: Sommerville, *Software Engineering.*

Principles and techniques of designing and developing engineered software, including program structures, design specifications, resource limitations, reliability, correctness, debugging, testing, modular program construction and user interfaces. A student project which implements these techniques will be required.

CS 445—Theory of Programming Languages (4-3-5)

Fall (even years). Prerequisites: CS 312, 342. Present text: Aho and Ullman, *Principles of Compiler Design.*

Study of programming language translation and basic compiler implementation techniques. Formal grammars and languages; specification of syntax and semantics; lexical analysis; parsing; semantic processing.

CS 490—Special Topics in Computer Science ((0-5)-(0-15)-(1-5))

Prerequisites: Consent of the instructor and permission of the department head.

Selected topics in some area of current interest in computer science; possible areas include system simulation, graphics, and microcomputers.

CS 496-497-498—Internship in Computer Science ((0-1)-(12-15)-5)

Offered by special arrangement. Prerequisite: Permission of the department head. May not be taken concurrently.

Experience, in a variety of computing environments suited to the educational and professional aspirations of the student, under the direction of a member of the faculty and appropriate off-campus supervisory personnel.

Psychology

Faculty

Martin, Grace, Department Head
Douglass, Keith
Lane, Joseph
Palefsky, Elliot
Patchak, Jane Anne
Satterfield, Neil
Worthington, C. Stewart

Students are advised to complete as many of the general degree requirements as possible before entering their junior year. Psychology majors should take PSY 101 and 220 before the end of their sophomore years. Suggested course distributions and annual schedules are available in the department office. All students are urged to seek advisement with regard to degree requirements and scheduling.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS WITH A MAJOR IN PSYCHOLOGY

	Hours
A. General Requirements	96
Area I	20
1. ENG 101, 102, 201	15
2. One course selected from: PHI 201, 202	5
Area II	20
1. MAT 101 and 195 or 290	10
2. One of the sequences: CHE 121, 122, or PHS 121, 122	10
Area III	20
1. HIS 114, 115, POS 113	15
2. ECO 201 or SOC 201	5
Area IV	30
1. BIO 101, 102, MAT 220	15
2. HIS 251 or 252	10
3. PSY 101, ANT 201	10
Area V	6
1. PE 117 and 103 or 108	3
2. Three activity courses	3
B. Degree Requirements	65
1. PSY 220, 308, 312, 410 and 411, 412 or 413	25
2. Recommended selection of psychology departments	25
3. Foreign language or computer science sequence	15
C. Elective Courses	10-25
1. An appropriate minor or selected upper division courses	10-25
D. Unspecified	20
E. Regents' and Exit Examinations	0
TOTAL	191-206

Minor Concentrations

The Department of Psychology offers minors in the following four areas:

A. Psychology—which requires 20 credit hours of upper division work.

B. Mental Health—which requires PSY 201, 202, 315, 405, 406.

C. Organizational Psychology—which requires five of the following: PSY 202, 315, 320, 321, 322, 406.

D. Anthropology—which requires 20 hours of upper division anthropology credits.

E. Sociology—which requires SOC 201 and 20 credit hours of upper division work. SOC 333, 350, 430 and 450.

All minor concentrations require a grade of "C" or better in each course taken.

OFFERINGS

Anthropology Offerings

ANT 201—Humankind & Culture (5-0-5)

Each quarter.

The nature, causes and prospects of being human. A study of the biocultural nature of humans and the development of societies from the preliterate beginnings through the rise of complex organization.

ANT 202—Human Evolution (5-0-5)

Offered on demand.

Survey of physical anthropology, including the fossil record, living primates, the evolution of pre-humans and humans, their ecology and cultures.

ANT/MPS 207—Introduction to Archaeology (5-0-5)

The introductory archaeology course consists of a history of the field, basic techniques, theoretical underpinnings, and examples of field work from all types of excavation. It covers the range from early man to industrial and urban archaeology in a general fashion. Analysis is introduced along with survey techniques, preservation, reporting and other skills. (Identical with MPS 207.)

ANT 305—Americans Called Indians (5-0-5)

Offered on demand. Prerequisite: ANT 201.

An investigation of the aboriginal cultures of North America from the Arctic to the Rio Grande. Study will include origins, distribution, ecology and interrelationships, past through present.

ANT 310—Anthropology of Sex and Gender (5-0-5)

Offered on demand. Prerequisite: ANT 201.

An examination of the cultural determinants of sex roles in selected world societies, past and present. The foci will be three anthropological analyses: economics and status; art and ritual; the structure of women's worlds.

ANT 400—Sorcery, Demons and Gods (5-0-5)

Offered on demand.

Anthropological analysis of religion as a universal category of culture. The supernatural will be considered: Mother goddesses myth, sorcery, shamanism, sacrifice and totemism. Belief systems in their sociocultural contexts will be emphasized.

ANT/MPS 401—Fieldwork in Historical Archaeology (0-10-5)

Summer. Prerequisite: MPS 207 or permission of instructor or director.

An introduction to and first application of archaeological methods to a specific field project. Excavation techniques, surveying and map making, data collecting and recording, archaeological photography, the identification and analysis of artifacts, and the interpretation of archaeological data will be presented in field and laboratory work as well as in lectures and readings. (Identical with MPS 401.)(Under certain circumstances this course may be substituted in the Preservation Studies minor for MPS 498.) Course may be repeated for credit.

ANT/MPS 402—Practicum in Archaeological Analysis (2-6-5)

Fall. Prerequisite: permission of instructor or director.

The application of archaeological interpretative techniques to a specific site or analytical problem. Individual research projects in the interpretation of archaeological data and the conservation of artifactual finds with special attention to the care and storage of collections, display in the museum setting, and the presentation of archaeologically-derived information. (Identical with MPS 402.)

ANT/MPS 403—American Material Culture (4-2-5)

An introduction to the study of the nonliterary remains of our society, past and present. Vernacular and polite architecture, ceramics, mortuary art, community and settlement patterns, diet, dress and disease are among the topics that will be discussed.

Psychology Offerings

PSY 101—General Psychology (5-0-5)

Offered each quarter.

An introduction to the vocabulary, concepts, and methods of the science of behavior. Discussion and demonstrations assist in surveying all the areas of psychology. Psychology 101 is prerequisite to all other courses in the department.

PSY 110—Introduction to Clinical Psychology (5-0-5)

A survey of behavioral problems, treatment modes, and theories.

PSY 191—Honors General Psychology (2-3-5)

Prerequisite: SAT verbal of at least 550.

This course may be substituted for PSY 101 by qualified students. Course content is similar to PSY 101, but emphasis is on psychology as a laboratory science. Students will conduct a variety of experiments and demonstrations and will write research reports on these topics.

PSY 201—Survey of Clinical Methods (5-0-5)

Prerequisite: PSY 101.

A survey of personality theories and the behavior changing techniques arising from them. The emphasis will be on learning theory and environmental influences.

PSY 202—Psychological Testing (5-0-5)
Prerequisite: PSY 101.
Objective measurement and accurate recording of findings will be emphasized. The use of interview data, case studies, as well as written tests, will be introduced.

PSY 203-4—Independent Practicum (V-V-5)
Prerequisite: 25 hours of psychology.
Students may be given academic credit for supervised community work which meets appropriate performance criteria. Students will need prior departmental faculty approval of the work setting, goals, and supervision. A faculty advisor will be assigned to support and evaluate the student's work.

PSY 220—Introduction to Psychological Research (4-2-5)
Prerequisite: PSY 101.
An introduction to scientific methodology and its application to behavior analysis. Various techniques of data collection and the statistical analysis of such data are emphasized.

PSY 301—Educational Psychology (5-0-5)
Prerequisite: PSY 101. Offered each quarter.
The application of behavioral science to the problem of learning in the classroom. Primarily for teacher preparation.

PSY 303—Social Psychology (5-0-5)
Prerequisite: PSY 101.
The study of the behavior of others as determinants of the behavior of the individual. The cultural milieu and group pressures will be examined in terms of their effect on behavior.

PSY 295—Developmental Psychology (5-0-5)
Prerequisite: PSY 101.
A study of the origin and development of psychological processes from the life span perspective. The effects of genetic/maturational and socio-cultural/environmental factors on the development of behavior throughout the life span are included.

PSY 307—Perception (4-2-5)
Prerequisites: PSY 101, 220.
An experimental-theoretical approach to the nature of perception. Special attention is given to the psychological method.

PSY 308—Learning and Motivation (4-2-5)
Prerequisites: PSY 101, 220.
An examination of the methodology and theory associated with the various forms of learning and their motivational concomitants.

PSY 309—Physiological Psychology (4-2-5)
Prerequisites: PSY 101, BIO 101-102.
Introduction to the biological bases of behavior. The structure and function of the nervous system are studied and related to the behavior of humans and other organisms.

PSY 310—Psychology of Human Sexuality (5-0-5)
Prerequisite: PSY 101.
An examination of the developmental, physiological, clinical and social aspects of human sexuality. The emphasis of the course will be on the various components of human sexuality from a developmental perspective.

PSY 311—Theories of Personality (5-0-5)
Prerequisite: PSY 101.
A study of selected personality theories with emphasis on normal behavior. Attention will be given to both experimental and clinical data. The determinants of personality structure and the development of personality will be examined from divergent points of view.

PSY 312—Measurement (5-0-5)
Prerequisite: PSY 220.
An examination of the theory of measurement. Reliability and validity techniques are discussed, using current psychological tests as examples.

PSY 315—Psychology of Conflict and Stress (5-0-5)
Prerequisite: PSY 101.
A study of the interactions between physiological and psychological processes in the development and maintenance of stress related disorders. Emphasis is on environmental factors and stress management techniques.

PSY 319—Animal Behavior (4-2-5)
Prerequisite: PSY 101.
A study of the adaptations and behaviors with which living organisms cope effectively with their environment. The laboratory will provide an introduction to animal care, training, and experimentation.

PSY 320—Industrial/Organizational Psychology (5-0-5)
Prerequisite: PSY 101.
A survey of applications of psychological principles to business and professional settings. Included are work motivation, goal setting, power politics, leadership and communication.

PSY 321—Psychology of Work Behavior (5-0-5)
Prerequisite: PSY 320.
A psychological analysis of issues related to the individual worker in industry and organizations. Included are employee selection, training strategies, performance evaluation and job satisfaction.

PSY 322—Psychology of Organizational Development (5-0-5)
Prerequisite: PSY 320.
Psychological principles applied to interpersonal and intergroup relations, organizational leadership, management of organizational change relating to the social environment and communication systems.

PSY 405—Behavior Disorders (5-0-5)
Prerequisite: PSY 101.
A study of the scientific and cultural bases of various conceptions of undesirable behavior. Application of principles derived from basic research will be emphasized.

PSY 406—Behavior Modification (5-0-5)
Prerequisite: PSY 101.
A study of proven methods of generating behavioral change, their empirical foundations, and their applications in clinical, educational and social settings.

PSY 410—History and Systems of Psychology (5-0-5)
Open only to psychology majors or by invitation of the professor.
A study of the basic ideas in psychology from early animism to modern behavioristics. Special attention is given to the philosophical basis at various times in the history of psychology.

PSY 411—Senior Seminar (5-0-5)
Open only to senior psychology majors or by invitation of the professor.
A reading and discussion group which will concentrate on selected contemporary issues in psychology. Specific content will vary from year to year.

PSY 412—Senior Project (V-V-5)
Prerequisite: Senior status.
Each student will work with a faculty member qualified in the student's area of interest. Work is to begin in the first quarter of the senior year (register for the quarter of expected completion). The student will produce a scholarly paper which must be acceptable to the departmental faculty.

PSY 413—Senior Internship (V-V-5)
Prerequisite: Senior status
Students may petition the faculty to receive academic credit for an individually designed work experience in an applied setting. The sponsoring organization must provide a qualified supervisor. A faculty advisor will establish performance criteria and evaluate accordingly.

Sociology Offerings

SOC 201—Introductory Sociology (5-0-5)
Offered each quarter.
An introduction to the concept and methods of the science of human group behavior. Includes the study of socialization, the role of the individual in society, and the major institutions and processes. It is designed to provide a better understanding of American culture and the wide range of social phenomena.

SOC 315—The Family and Alternative Lifestyles (5-0-5)
Prerequisite: SOC 201.
A study of the role of the family in the development of the individual, the family unit and societal institutions. Consideration will be given to various structures and functions of the family as it exists or is emerging in America.

SOC 320—Ethnic Minorities (5-0-5)
Prerequisite: SOC 201.
This course focuses on the present factual situation in America. The course examines the problems faced by minorities in America, especially where skin color and language pose social and economic barriers. It looks at dominant public institutions and patterns of response by minorities such as Black Americans, Chicanos, Puerto Ricans, Native Americans, and other sizeable ethnic groups.

SOC 333—Exploring Popular Culture (4-2-5)
Prerequisite: SOC 201.
An examination of popular culture using music, radio, television, texts, magazines, movies, technology and language to explore a given era. Comparisons will be made of lifestyles, sex roles, racial attitudes and the national regional mood of times examined.

SOC 340—Methods of Social Research (5-0-5)
Prerequisite: SOC 201.
This course will explore several methods of

applied social research including case studies, record research, experimental designs, surveys, observation and systems interaction as they apply to social data. The student must demonstrate a working knowledge of each method in the context of social work practice.

SOC 350—Social Problems (5-0-5)
Prerequisite: SOC 201.

An examination of behavioral deviancy, normative strain, and differences between social ideals and social realities in the context of sociological theory.

SOC 430—Alcohol and Drug Studies (5-0-5)
Prerequisite: SOC 201.

A course focusing on the various forms of alcohol and drug abuse with emphasis on the stages of harmful dependence and addiction. There will be an examination of the legal and social implications of addiction as well as approaches to treatment and rehabilitation.

SOC 450—Independent Study (1-5)-0-(1-5)
By invitation of the professor. Offered on demand. Open to transient students only with permission of the Dean of Arts and Sciences at Armstrong.

School of Education

Nash, Charles, Dean

Goals and Objectives

The School of Education considers its major function to be the preparation of competent teachers who are committed to excellence in education. Its programs are designed to meet the needs of present and future education professionals by providing them with specialized skills, knowledge of theory and methods of teaching, practical laboratory experiences, and the opportunity to create innovative ways of meeting the needs of every student.

The School also endeavors to maintain the highest standards of professional excellence among its faculty by encouraging and providing opportunities for enrichment such as participation in educational seminars, conferences, workshops, and post graduate study.

Organization and Degrees

The School of Education consists of three departments: Elementary Education, Physical Education, Secondary Education and Special Education. The School of Education was created by the Board of Regents in 1979, and offers a variety of programs, including all of the majors and degrees in teacher education formerly offered by Savannah State College and Armstrong State College.

Armstrong State College is authorized by the Board of Regents of the University System to offer the following baccalaureate degree programs in teacher education.

Associate in Science with a major in:
- Early Childhood Education

Bachelor of Arts (with teacher certification) with majors in:
- English
- History
- Political Science

Bachelor of Music Education

Bachelor of Science in Education with majors in:
- Early Elementary Education
- Health, Physical Education and Recreation
- Middle School Education
- Speech Correction

Bachelor of Science in Education with majors in Secondary Education in the teaching fields of:
- Art Education
- Biology Education
- Business Education (Bookkeeping and Business Management)
- Business Education (Comprehensive)
- Business Education (Data Processing and Accounting)
- Chemistry Education
- English Education
- General Science Education
- Industrial Arts Education
- Mathematics Education
- Music Education
- Physics Education
- Social Science Education (Broad Fields-History)
- Social Science Education (Broad Fields-Political Science)
- Social Science Education (History)
- Social Science Education (Political Science)
- Trade and Industrial Education

Bachelor of Science (with teacher certification) with majors in:

Biology
Chemistry
Mathematical Sciences

Program of Study (with MS-4 teacher certification) in:

Library Media

Additional degree programs, those at the masters level, are delineated in the graduate section of this catalog.

All Teacher Education programs are approved by the Georgia State Department of Education. Upon verification by the College that a student has successfully completed an approved program, the student applies to the State Department of Education for the appropriate teaching certificate.

Armstrong State College has programs which are accredited by the National Council for Accreditation of Teacher Education.

Cooperative Programs

Savannah State College cooperates with Armstrong State College in offering majors in: (1) Industrial Arts Education, (2) Trade and Industrial Education, and (3) Business Education. Coursework in the major field of study for each of these programs is offered by Savannah State. Students interested in these programs should contact the head of the Department of Secondary Education at Armstrong State College.

General Requirements: Teacher Education Programs

These requirements apply to all students in Teacher Education programs at Armstrong State College.

Academic Advisement

A student who desires to become an elementary or secondary school teacher should apply during the first quarter of residence to the School of Education for academic advisement. The student should follow without deviation the approved program. Upon admission to Teacher Education, students will be assigned advisors as follows:

1. Early Elementary and Middle School education majors are assigned an advisor in the Department of Elementary Education who will assist the student in planning the total program of studies.
2. Students pursuing secondary or all level programs will be assigned an advisor in the Department of Secondary Education and Special Education. Each student must have a secondary teaching program approved in advance. Special forms for this purpose are to be filed with the advisor and a copy given to the student.

Admission to Teacher Education

A student pursuing a program leading toward certification must apply for admission to the Teacher Education program. This application will normally be filed during the second quarter of the sophomore year or, for transfer students, in the first quarter of the junior year. Application forms may be secured from the office of the Dean of the School of Education. The following criteria are used in admitting applicants to teacher education:

1. Completion of at least 60 quarter hours of college credit with a minimum 2.500 (unrounded) GPA.
2. Completion of EDN 200 and ENG 101, 102, and 201, or their equivalents, with a "C" or better in each course.
3. Competence in oral and written expression.
4. Indication of desirable attitude, character, and teaching potential.
5. Statement of good health signed by a licensed physician.
6. Satisfactory completion of the Regents' Test. Students already holding a baccalaureate degree from an accredited institution are exempted from the Regents Examination. However, applicants seeking certification must satisfy requirements of the area in which they will be certified.
7. Submission of four letters of recommendation; letters may be secured from the colleges or universities in which the applicants were previously enrolled.
8. Submission of an up-to-date copy of the Program of Study planning sheet.

A student who does not meet requirements may seek to be admitted on the basis of at least 75 quarter hours of credit specifically included in the student's program-of-study and with a GPA of at least 2.75 on that work.

Recommendation for Certificate

To be recommended for a teaching certificate, a student must complete the degree requirements for an approved teacher certification program of Armstrong State College and must complete at Armstrong State College a majority of the courses in the following

areas: the professional sequence, the teaching field, and the related field.

Liability Insurance Requirement

All students who participate in courses for which field experiences (i.e., laboratory, practicum) are required must provide evidence of liabiity insurance (i.e., SGAE membership) or must sign a waiver of insurance coverage. Students should consult advisors regarding this requirement.

September Practicum

The purpose of the September Practicum is to provide an opportunity for future teachers (1) to learn what teachers do at the beginning of a new school term, (2) to participate in experiences that will assist the prospective teacher with future decisions concerning teaching as a career, and (3) to become acquainted with the organization and curriculum of a particular school.

The September Practicum occurs during the first two weeks of the public school term (usually in late August and early September) and should be scheduled during the student's junior or senior year. No credit is given for the September Practicum, but it is a requirement in all of the teaching fields in the Armstrong State College Teacher Education Program.

Application for the September Practicum should be made during the first week of the Spring Quarter for a September Practicum in the forthcoming September. The student should contact the Director of Professional Laboratory Experiences.

Student Teaching

Student teaching, the culminating activity of the professional sequence, is provided in selected off-campus school centers. The full quarter of student teaching is arranged cooperatively by the college, the participating schools, and supervising teachers. Completed applications for admission to student teaching must be submitted to the Director of Professional Laboratory Experiences during the first week of the quarter preceding student teaching. While student teaching, the student is required to adhere to established policies and procedures of the cooperating school system in addition to those policies and procedures established by the college and the School of Education.

A student is admitted to student teaching at the time assignment is made. While student preferences and other personal circumstances are considered, the School of Education reserves the right to exercise its discretion in placement. The student will receive a letter of assignment. Orientation to student teaching will be held during the first several days of the quarter in which student teaching is scheduled. The following requirements must be met before a student can enroll in student teaching:

1. Be admitted to the Teacher Education Program.
2. Have at least senior status.
3. Completion of all teaching field courses.
4. Have a 2.500 average on all courses attempted, and "C" or better in all courses acceptable toward the teaching field, professional sequence, concentration, and related electives.
5. Have satisfactorily completed the Media Competency Examination, September Practicum, and the Regents Examination.
6. Be recommended by two members of the appropriate departmental faculty, one of whom must be the student's advisor, and two faculty members outside the School of Education.
7. Be approved by their respective departments and the Dean of the School of Education.

A student will not be permitted to take additional courses during student teaching. Student teachers are not permitted to teach in a school in which their children are enrolled.

NTE Requirement

All undergraduate students completing teaching educational programs are required to take the Test of Professional Knowledge of the Core Battery of the National Teacher Examinations Program. Students must submit the score to the School of Education before the college can verify that an approved program has been completed. Additional information about this test can be secured from the departmental offices.

Program Completion

A student must complete the college's approved program for certification within the four years following admission to the Teacher Education program. In the event that the student does not complete the program in four years, the individual must meet the requirements of the program in effect at that time.

Minor Concentration

A minor in teacher education is available for students who do not wish to earn teacher certi-

fication but who do aspire to work in education related fields. The minor provides a limited survey of courses which address leading concepts and problems in the field of education. Students majoring in General Studies, Psychology, and Health Science are only a few who may find this minor a valuable program of study.

EDN 200 - Orientation to Teaching 5
EDU 310 - Introduction to Exceptional Children 5
EDU 302 or PSY 301 - Educational Psychology 5
EDU 240 - Education Media 5
and one course from 5
EDU 320 - Tests and Measurements
EDN 202 - Health and the Young Child
EDU 350 - Improving Speech
LM 310 - Reference Sources
EDN 460 - Multicultural Education
Total 25

Elementary Education

Faculty
Ward, Paul, Department Head
Agyekum, Stephen
Battiste, Bettye Anne
Blalock, Virginia
Cochran, John
Dandy, Evelyn
Lawson, Cornelia
Stephens, Jacquelyn

PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION

	Hours
A. General Requirements	49
Area I	10
1. ENG 101 and 102	
Area II	10
1. MAT 101	5
2. One course from: BIO 121 or 122, CHE 121 or 122 or PHY 211 or 212 or PHY SCI 121 or 122	5
Area III	10
1. HIS 251 or 252	5
2. POL SCI 113	5
Area IV	15
1. PSY 101	5
2. EDN 200, 202	10
Area V	4
1. PE 117	2
2. PE 211	2
B. Restricted Electives (Select 2)	10
Area VI	10
1. ART 200, 271, 272, 273	5
2. MUS 200 or PHI 201	5
3. ENG 201 or 222	5
4. HIS 114 or 115	5
5. BIO 121 or 122	5
6. CHE 121 or 122	5
7. PHY 211 or 212	5
8. PHS 121 or 122	5
9. MAT 103, 195, 220 or 290	5
10. ECO 201 or 202 or SOC 201	5
11. GEO 211 or 212	5
12. DRS 228	5
C. Major Field Courses	30
Area VII	30
1. ECE 248, 244, 226, 224, 222, 235	
D. Major Field Electives	6-8
1. ECE 232, 234	3
ECE 246	5
2. LS 110	1
3. CS 296	3
E. Regents Examinations	0
TOTAL	95-97

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN EARLY ELEMENTARY EDUCATION

	Hours
A. General Requirements	96
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201	5
Area II	20
1. MAT 101 and 103 or 195 or 220 or 290	10
2. Approved laboratory science sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201; ECO 201, 202; SOC 201	5

Area IV 28
1. EDN 200, 202 8
2. DRS 228, PSY 101 10
3. HIS 251 or 252 and GEO 211 or 212 10
Area V 5
1. EDU 240 2
2. CS 296 3
Area VI 8
1. PE 103 or 108, 117, 211 5
2. Activity courses 3

B. Specialized Content Courses 48
1. ART 320, MAT 391; MUS 318, 319 15
2. PE 320 3
3. EDN 324, 336, 342, 422, 424, 434

C. Professional Sequence 40
1. EDU 310, EDN 304, 432, 436, 471, 472, 473 35
2. PSY 301 or EDU 302 5

D. Electives 2-5

E. Regents' and Exit Examinations 0

TOTAL 191-194

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN MIDDLE SCHOOL EDUCATION

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201 5
Area II 20
1. MAT 101 and 103 or 195 or 220 or 290 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114,115; POS 113 15
2. One course from: ANT 201, ECO 201, 202; SOC 201 5
Area IV 30
1. GEO 211 or 212 and HIS 251 or 252 10
2. DRS 228, PSY 101, EDN 200 15
3. EDU 240, CS 296 5
Area V 6
1. PE 103 or 108; 117 3
2. Three activity courses 3

B. Concentration I Courses 20
Language arts, mathematics, science, or social sciences 20

C. Concentration II Courses 20
Health and physical education, language arts, mathematics, music, science, social sciences, or art 20

D. Specialized Courses 30
1. EDN 336, 342, 422, 428, 434 25
2. MAT 391 or 393 5

E. Professional Sequence 40
1. EDU 310; EDN 304, 438, 450, 471, 472, 473 30
2. PSY 301 or EDU 302 5

F. Regents' and Exit Examinations 0

TOTAL 196

OFFERINGS

SPECIAL NOTES:
1. Liability insurance or waiver is required for all courses with field experiences. Please consult course outline or professor regarding this requirement.
2. Most of the following EDN courses are provided primarily—but not exclusively—by the Department of Elementary Education. Generally, EDN and graduate level EEE courses are taught through the Department of Elementary Education. EDU, EXC, LM, and LS courses are taught through the Department of Secondary Education.

EDN Offerings

EDN 200—Orientation to Teaching (5-0-5)
The study of the status of education and of teaching as a profession. The student engages in directed self-study and plans for the achievement of his professional goals.

EDN 202—Health and the Young Child (3-0-3)
Study of factors impacting upon the physical, social and emotional health of young children, including food and nutrition, safety, disease and trauma.

EDN 235—Music and Art Experiences in (ECE) (5-0-5)
The fundamentals of music and art. The students will design materials and demonstrate

strategies for guiding children's music and art experiences.

EDN 304—Human Growth and Learning (3-6-5)

Prerequisite: EDN 200.

Focus on total growth and development of individuals with emphasis upon interrelationships of the development process and teaching-learning. Laboratory Component includes use of campus, school and community resources for observing-participating, testing, and synthesizing course theory.

EDN 307—Growth and Development of the Young Child (5-0-5)

Prerequisite: Admission to Teacher Education.

The study of inter-relatedness of the aspects of growth and development; physical-motor, social-emotional, and intellectual cognitive for the young child. A unification of theory and research utilizing directed observations and a study of various measurements appropriate with young children will be included.

EDN 308—The Child and His Family (5-0-5)

Prerequisite: Admission to Teacher Education.

The study of children including the parent-child, parent-teacher relationships and cultural factors which affect children and their families. Techniques for development of parent involvement in the total developmental process.

EDN 310—Practicum in Nursery-Kindergarten Education (2-8-5)

Prerequisite: Admission to Teacher Education.

Provides opportunities for directed experience with children under six. Students attend seminars and work in selected preschool programs.

EDN 324—Literature for Children (5-0-5)

Prerequisite: Admission to Teacher Education.

A study of children's books and selections from books. Designed to assist future teachers in the selection of the best that has been written in the realm of children's literature for each period of the child's life.

EDN 336—Elementary School Language Arts (4-2-5)

Prerequisite: Admission to Teacher Education.

Designed to offer the student the opportunity to explore methods, content, and materials used in teaching the skills of communicative arts to children. Directed field experiences.

EDN 341—The Reading Process (5-0-5)

Prerequisite: Admission to Teacher Education.

Designed to extend understandings about reading as a developmental, functional, and recreational process. Emphasis on experimental approaches, trends, issues, media and research.

EDN 342—Elementary School Social Studies (4-2-5)

Prerequisite: Admission to Teacher Education.

Focus upon fundamental social studies skills and processes needed by children. Directed field experiences.

EDN 343—Mathematics for Teachers (5-0-5)

Prerequisite: Admission to Teacher Education.

Recent trends in mathematics. Emphasis on strategies and media used to teach mathematics in early elementary and middle schools.

EDN 418—Literature for the Middle School Learner (5-0-5)

Prerequisite: Admission to Teacher Education.

Provides opportunity for prospective and in-service teachers to explore multimedia offerings of literary value and of significance to age level of learners found in the middle school. Relates literature to all areas of the middle school curriculum.

EDN 422—The Teaching of Reading (5-0-5)

Prerequisite: Admission to Teacher Education.

Study of the developmental reading program. Emphasis will be placed on reading skills, approaches, techniques, materials and evaluation for classroom use.

EDN 424—Practicum in Individual Reading Instruction (2-8-5)

Prerequisite: EDN 422.

Designed to provide prospective teachers with directed practice in the teaching of reading. Special emphasis will be placed upon diagnosis and teaching of needed reading skills. Students will be required to tutor at least one remedial reader.

EDN 428—Reading in the Middle School (3-4-5)

Prerequisite: Admission to Teacher Education.

Primary focus upon reading as a tool for extending learning in the content areas of the middle school.

EDN 430—Diagnosing and Prescribing for Learning Problems (5-0-5)

Prerequisite: EDN 422 or 428.

Diagnostic and prescriptive process principles underlying assessment and correction of learning problems. Designed to help the classroom teacher (1) determine performance levels and needs of pupils and (2) provide effective learning assistance.

EDN 432—Methods and Materials for K-4 (4-2-5)

Prerequisites: Admission to Teacher Education and EDN 304.

Examination of teaching resources, teaching strategies and the range of interpersonal relationships involved in teaching young children.

EDN 434—Methods and Curriculum of Elementary Science (5-0-5)

Prerequisite: Admission to Teacher Education.

Interpretation of science for elementary school teaching; exploration of processes for translating meaning into classroom practice. Emphasis upon inquiry, the discovery process and other science teaching strategies.

EDN 436—Curriculum and Teaching K-4 (3-4-5)

Prerequisite: Admission to Teacher Education.

The study of existing administrative organizations and instructional programs, evaluation procedures, and experiences in curriculum design at the primary level. The study and development of teaching methods, materials, and equipment. Directed field experiences.

EDN 438—Curriculum and Teaching (4-8) (3-4-5)

Prerequisite: Admission to Teacher Education.

The study of existing administrative organizations and instructional programs, evaluation procedures, and experiences in curriculum design at the middle school level. The study and development of teaching strategies, materials, and equipment. Directed field and experiences.

EDN 450—The Middle School (5-0-5)

An overview of the history and purpose of the middle school; characteristics of the middle school learner, emphasis upon the nature and role of the middle school teacher and upon appropriate programs for the needs of middle school learners.

EDN 460—Multi-Cultural Education (5-0-5)

Designed to study the educational implications of cultural diversity. Examination of the school programs designed to meet the needs and interests of children from different ethnic backgrounds.

EDN 471—Elementary Education—Knowledge of Content (0-V-5)

EDN 472—Elementary Education—Instructional Methods and Materials (0-V-5)

EDN 473—Elementary Education—Professional/Interpersonal Skills (0-V-5)

Prerequisite: See "General Requirements: Teacher Education Programs." Students are placed in selected schools for one quarter as full-time student staff members. No additional credit hours may be earned while student teaching. Classroom experiences and other staff responsibilities are jointly supervised by the college staff, supervising teachers and principals in the selected schools. Open to transient students only with permission of the Dean of Education at Armstrong and of the college from which the student comes.

ECE Offerings

ECE 223—The Reading Process for Early Childhood Education (5-0-5)

The study of beginning reading readiness and language arts development. Special emphasis on strategies for teaching prerequisite skills directly related to the formal reading program.

ECE 224—Mathematics and Science for Young Children (5-0-5)

Prerequisite: MAT 101.

Topics include development of whole number integers and rational numbers; arithmetic and geometric relations. Study of integrating science concepts, principles, and processes into the teaching of science for the young

child. Emphasis on strategies and media used to teach mathematics and science in early years.

ECE 226—Language Arts for Early Childhood Education (5-0-5)

Selecting and reading appropriate books for the pre-school child with special emphasis on picture books, reading aloud, story-telling techniques, drama and role playing.

ECE 232—Tests and Measurements in Early Childhood Education (3-0-3)

A job related introductory course which will survey group readiness, developmental, psychological, and achievement tests commonly employed at the preschool and primary levels. Basic descriptive statistics and interpretative skills will be emphasized. Students will be provided opportunities to administer and interpret tests.

ECE 234—Classroom Management and Discipline (3-0-3)

This course is designed to help the early childhood teacher determine performance levels and instructional needs of children as these factors relate to effective and positive classroom management techniques.

ECE 235—Expressive Activities in Early Childhood Education (5-0-5)

The fundamentals and emphasis on the place of music, drama, movement, creative activities and art in the education of young children. Designing materials and demonstrating strategies for guiding children in the expressive activities.

ECE 244—Curriculum and Implementation (5-0-5)

Prerequisites: EDN 224 and ECE 223.

The study of approaches to curriculum development and implications for instructional strategies. This course places special focus on the development of instructional units, writing of objectives, organization of learning centers, and lesson and unit planning. Includes current trends in early childhood curriculum design.

ECE 246—Supervision and Administration (5-0-5)

Prerequisite: ECE 244.

Study of principles and practices of personnel management, emphasizing human relations. Emphasis will be placed on budget preparation, organizational structure, license requirements and program evaluation.

ECE 248—Growth and Development of the Young Child (5-0-5)

An introduction of the study of child development — social, emotional, physiological and intellectual. Includes parent-child, parent-teacher relationships and multi-cultural factors which affect children and their families. Focuses on development from conception through eight years with special emphasis on factors which contribute to individual differences, and influences of educational practices upon development.

ECE 252—Practicum in Nursery-Kindergarten Education (2-8-3)

Field experience during which the student with no teaching experience and/or not working in an early childhood education related job, will observe and become involved in the teaching/learning processes at each of the levels of early childhood education (nursery and kindergarten). Scheduled seminars.

Physical Education

Faculty

Sims, Roy, Department Head
Aenchbacher, Edward
Ford, Betty
Gill, Gloria
Knorr, Virginia
Lariscy, Michael
Tapp, Lawrence

During the freshman year, all students should take PE 117 (Basic Health) or 211 (Safety and First Aid) and 103 or 108 (Swimming). During the sophomore year, students may elect any three Physical Education activity courses with the last two numbers being between 01 and 09. Students unable to participate in the regular program should plan an alternate program with the Head of the Department of Physical Education.

Students should check their program of study for PE 117 and/or 211 requirements.

Physical Education majors are urged to complete their core curriculum requirements before entering their junior years.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN HEALTH, PHYSICAL EDUCATION AND RECREATION

	Hours
A. General Requirements	103
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201	5
Area II	20
1. MAT 101 and 220 or 290	10
2. Approved laboratory science sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, 202; SOC 201	5
Area IV	30
1. EDN 200, DRS 228, PSY 101	15
2. PE 117, 211, 216, 217, 219, 228, 229	15
Area V	8
Eight hours of activity courses	8
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	53-54
1. PE 103 or 108; 106	2
2. PE 205; 207 or 316; 210; 230	8-9
3. PE 212 or 213 or 214 or 215	2
4. PE 310, 312, 315, 317, 318, 321, 330	26
5. PE 413, 420, 421	15
C. Professional Sequence	35
1. EXC 310; EDU 335, 491, 492, 493	25
2. PE 443, PSY 301	10
D. Electives	2-3
E. Regents' and Exit Examinations	0
TOTAL	194

OFFERINGS

Physical Education Offerings

SPECIAL NOTE:

Either PE 103 or PE 108 is required for all students. Students may register for the course for which they feel qualified without taking a swimming test. The instructor of that course will administer the swimming test, and any student enrolled in the improper course will be required to change to the proper course. Any student who holds a valid senior life-saving certificate and/or a valid water safety instructor's certificate and/or passes the Armstrong swimming test may be exempted from the required swimming courses.

PE 100—Beginning Weight Training (0-2-1)
Fall, Winter, Spring.

Emphasis on developing physical fitness through a variety of fundamental weight training exercises. Introduction of mechanical principles and techniques necessary for the understanding of weight training programs. Only one of PE 100 or PE 204 may count as an activity course toward the six hours of required physical education.

PE 101—Conditioning (0-2-1)
Fall, Spring.

Consists of calisthenics, stunts, tumbling lifts and carries, road work, dual combatives and games.

PE 102—Team Sports (0-2-1)
Fall, Winter, Spring.

Consists of two of the following sports: basketball, volleyball and softball.

PE 103—Basic Swimming Skills (0-3-1)
Fall, Winter, Spring, Summer. (PE 202 or 316 may be substituted for PE 103 or 108).

Skills and strokes for the student unfamiliar with or afraid of the water and who cannot swim. Satisfies Armstrong swimming requirement.

PE 104—Bowling (0-2-1)
Fall, Winter, Spring, Summer.

Basic skills in bowling. Minimum of two games required per class period at student's expense. Must provide own transportation.

PE 105—Badminton (0-2-1)
Fall, Winter, Spring, Summer.

Basic skills in badminton. Student must provide own racquet.

PE 106—Beginning Gymnastics (0-2-1)
Winter.

Fundamentals and practice in beginning tumbling and gymnastic apparatus. Required of Physical Education majors.

PE 107—Trampoline (0-2-1)
Fall, Winter, Spring.

The teaching of the proper care and use of the trampoline. Under strict supervision, the student learns to perform the following skills: seat drop, knee drop, front drop, pull over, cradle, turntable, swivel hips, and spotting.

PE 108—Intermediate Swimming (0-2-1)
Fall, Winter, Spring, Summer (PE 202 or the American Red Cross WSI course may be substituted for PE 103 or 108).

Four basic strokes, skills, endurance and knowledge pertaining to safety in, on, or about water. Required, if advised by Physical Education Department.

PE 109—Intermediate Gymnastics (0-2-1)
Winter. Prerequisite: PE 106 or permission of instructor.

Continuation of PE 106 with additional practice of tumbling and gymnastic apparatus.

PE 115—Officiating of Football (2-2-2)
Fall.

Consists of a study of rules, rules interpretation, and actual experience in officiating intramural games, approved community recreation games, and public school games. Elective credit. Students must have permission of the department head or course instructor to enroll.

Students must provide own whistles, hats and transportation to any off campus assignment.

PE 116—Officiating of Basketball (2-2-2)
Winter.

Consists of a study of rules, rules interpretation, and actual experience in officiating in class games, intramural games, approved community recreation games and public school games. Elective credit. Students must have permission of the department head or course instructor to enroll.

Student must provide own whistle and transportation to any off-campus assignment.

PE 117—Basic Health (2-0-2)
Fall, Winter, Spring, Summer.

A basic course in health education with emphasis on personal health. Required of majors.

PE 200—Archery (0-2-1)
Fall, Winter, Spring, Summer.

Basic skills in archery for recreational use.

PE 201—Elementary Tennis (0-2-1)
Fall, Winter, Spring, Summer.

Basic skills in tennis. Student must provide own racquet and one can of new tennis balls.

PE 204—Advanced Weight Training (0-2-1)
Fall, Winter, Spring. Prerequisite: PE 100 or permission of instructor.

Emphasis on continued development of physical fitness through a variety of advanced weight training exercises. Improvement of maximal muscular strength and endurance in the main muscle groups of the body through progressive resistance exercises. Only one of PE 100 or PE 204 may count as an activity course toward the six hours of required physical education.

PE 205—Folk Square, Social Dancing (0-2-1)
Fall.

Instruction and practice in all forms of folk, square, and social dancing. Required of Physical Education majors.

PE 206—Beginning Modern Dance (0-2-1)
Fall.

Introduction to the art of modern dance. Includes technique, exercise, basic improvisation, dance positions, and locomotor movement.

PE 207—Swimming Methods and Techniques (0-2-1)
Winter. Prerequisite: PE 108 or equivalent.

Methods and techniques of teaching beginning swimming skills. Required of majors not completing the Water Safety Instructor's Course.

PE 208—Golf (0-2-1)
Fall, Winter, Spring, Summer.

Basic techniques and instruction for the beginning golfer. Minimum of 36 holes of golf must be played outside of class at student's expense. Must provide six shag balls for class and transportation.

PE 209—Intermediate Modern Dance (0-2-1)
Winter. Prerequisite: PE 206 or permission of the instructor.

A continuation of PE 206 with emphasis on dynamics, composition, and choreography.

PE 210—Prevention and Treatment of Athletic Injuries (2-1-2)
Winter.

Theory and practice of caring for and preventing injuries relating to a variety of sports. Students required to assist in laboratory experiences with treating and preventive training through the athletic, intramural or physical education programs. Required of majors. Student must provide own athletic tape.

PE 211—Safety and First Aid (3-0-2)
Fall, Winter, Spring, Summer.

The American Red Cross Standard and Advanced course in First Aid.

Required of majors. Contents of personal first aid kit must be provided by the student.

PE 212—Coaching Football (3-0-2)

Fall.

Instruction and practice in fundamental skills and team play, coaching courses is required of majors. Minimum of two games must be scouted at student's expense.

PE 213—Coaching Basketball (3-0-2)

Winter.

Instruction and practice in fundamental skills and team play, emphasizing methods and drills used by leading coaches. One of the coaching courses is required of majors. Minimum of two games must be scouted at student's expense.

PE 214—Coaching Baseball and Softball (3-0-2)

Spring.

Instruction and practice in fundamental skills and team play emphasizing methods and drills used by leading coaches. One of the coaching courses is required of majors. Minimum of two games must be scouted at student's expense.

PE 215—Coaching Volleyball and Soccer (3-0-2)

Spring.

Introduction to the rules and fundamental skills of volleyball and soccer. Individual development and application of successful coaching methods. Coaching methods will include acquisition of sound organizational practices and understanding of various coaching types. Required of majors.

PE 216—Basic Games (2-0-1)

Spring.

Designed to acquaint student with the various categories of games, the appropriateness for each type of various age levels, proper progressions, and the best ways to use games teach physical skills, emotional and social skills, and actual sports skills. Required of majors.

PE 217—Techniques of Dance (2-0-1)

Winter.

Overview of the art of dance and its various categories. Stresses similarities and differences in form, technique and history of the ballet modern dance, jazz dance, ballroom dance square dance, aerobic dance and folk dance with emphasis on teaching and techniques.

PE 219—Techniques of Safety in Gymnastics (0-2-1)

Winter. Prerequisite: PE 106.

Course designed to give majors thorough understanding of the basic principles of spotting in gymnastics to assure maximum safety for learners as well as proper teaching progressions and lead-up skills necessary at each level of learning. Required of majors.

PE 228—Structure and Function of the Human Body I (3-4-5)

Fall.

A study of the skeletal and muscle systems of the human body. Credit may not be applied toward the core natural science requirement. Required of majors.

PE 229—Structure and Function of the Human Body II (2-2-3)

Winter. Prerequisite: PE 228.

A continuation of PE 228 with emphasis on certain human organ systems including the circulatory, respiratory, and digestive. Credit may not be applied toward the core natural science requirement. Required of majors.

PE 230—Physiology of Exercise (3-2-4)

Spring. Prerequisites: PE 228, 229.

Comprehensive introduction to the neuromuscular basis of exercise. Lecture and laboratory course directed toward understanding of the physiological basis of human physical performance capabilities and the investigation of certain physiological responses to exercise. Study will include the ability to prescribe the appropriate amount and type of exercise for development of various components of physical fitness and for weight control. Required of majors.

PE 310—Techniques of Sports Skills (5-0-5)

Spring. Prerequisites: PE 443 and student must have successfully completed an activity course in three of the following or have permission of the instructor: golf, tennis, badminton, bowling, and team sports. Admission to Teacher Education.

Analysis and practice in teaching sport skills, such as: golf, tennis, bowling, badminton, basketball, volleyball, soccer and softball. Required of majors.

PE 311—Advanced Life Saving Course in Swimming (1-2-2)

Fall. Prerequisite: 500 yard continuous swim using four basic strokes.

The American Red Cross Advanced Life

Saving Course. (May be substituted for PE 103 or 108).

PE 312—Measurement and Evaluation in Health, Physical Education and Recreation (5-0-5)

Fall.

Lectures, laboratory and field experience in the development, evaluation and application of tests in health and physical education. Required of majors.

PE 315—Skill Techniques (0-2-2)

Fall, Winter, Spring. Prerequisite: PE 310. Admission to Teacher Education.

Laboratory experiences in assisting and teaching activity courses in the physical education program. Students will assist college faculty in planning, instructing, and evaluation procedures in a college physical education activity class. Majors only. Required of majors.

PE 316—Water Safety Instructor (0-3-2)

Spring. Prerequisite: Current Advanced Lifesaving certificate.

Course designed to teach proper methods, learning sequences, and skills for the purpose of certifying students as American Red Cross Water Safety instructors qualified to teach Beginning, Advanced Beginning, Intermediate Swimming and Advanced Lifesaving courses. Includes review of lifesaving skills and practice teaching. Required of majors: PE 207 or 316.

PE 317—Methods and Curriculum of Health Education in the Elementary and Secondary Schools (3-0-3)

Winter. Prerequisite: Admission to Teacher Education.

Selection of health content in school curriculum, preparation and presentation of health topics. Teaching method is emphasized and student participation is stressed. Required of majors.

PE 318—Intramural and Recreational Activities (3-0-3)

Fall.

Organization and administration of intramural and recreational sports activities with emphasis on school and community programs. Students required to participate in field experiences and observations. Must supply their own transportation. Required of majors.

PE 319—Foundations of Physical Education (3-0-3)

Fall.

Historical and scientific background of the practices in physical education. Required of majors.

PE 320—Health and Physical Education for the Elementary School Teacher (3-0-3)

Winter. Prerequisite: Admission to Teacher Education.

Theory and current practice in the teaching of health and physical education at the elementary school level. Designed to meet the requirement for elementary certification.

PE 321—Movement Education (3-0-3)

Spring.

Designed to equip the student to teach elementary physical education via the use of "movement education," i.e., the guided discovery method of teaching the concepts of Space Awareness, Body Awareness, Quality of Body Movement and Relationships. Required of majors.

PE 330—Kinesiology (2-2-3)

Spring. Prerequisite: PE 228.

Mechanical analysis and the functions of the body in muscular work. Movements in athletics and daily living are considered. Required of majors.

PE 364—Physical Education for the Exceptional Child (3-2-5)

Student is introduced to methods of identifying and programming for the exceptional child.

PE 413—Special Topics in Physical Education (5-0-5)

Fall. Prerequisite: PE 312.

Research methods in health and physical education. Allows students an opportunity for in-depth pursuit into areas of their interests. Open to majors only. Required of majors.

PE 421—Organization and Administration of Physical Education and Athletics (5-0-5)

Winter. Prerequisite: PE 443 and Admission to Teacher Education.

Practice and policies in establishing, administering, and evaluating physical education and athletic programs. Such experiences as curriculum planning and selection, care and maintenance of equipment are included in this course. Open to majors only. Required of majors.

PE 443—Methods and Curriculum in Physical and Recreation Education (5-0-5)

Winter. Prerequisite: Admission to Teacher Education.

The study of secondary school Health, Physical and Recreation Education curriculum with emphasis upon materials and methods of teaching Health, Physical and Recreation Education. Directed observations. Open only to and required of Physical Education majors.

Secondary Education and Special Education

Faculty

Stokes, William, Department Head
Ball, A. Patricia
Burgess, Clifford
Gadsden, Ida, Emerita
Galloway, Herbert
Newberry, Lloyd
Robinson, Aurelia
Sartor, Herman, Emeritus
Stevens, Linda
White, Susan

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF ART EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201	5
Area II	20
1. MAT 101, 290	10
2. Approved laboratory science sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201; ECO 201, 202; SOC 201	5
Area IV	30
1. EDN 200, PSY 101	10
2. ART 111, 112, 201, 213	20
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Teaching Concentration	58-63
1. ART 202	5
2. ART 271, 272, 273**	10-15
3. ART 313, 330, 340, 350, 351, 370	30
4. Two courses from: ART 362, 363, 364	10
5. ART 400	3
C. Professional Sequence	35
1. EXC 310, EDU 335, 491, 492, 494	25
2. PSY 301 or EDU 302	5
D. Electives	0-5
E. Regents' and Exit Examinations	0
TOTAL	194

**May not be duplicated in Area I.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF BIOLOGY EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201	5
Area II	20
1. MAT 101 and 103 or 206 or 220	10
2. BIO 101, 102	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, 202; SOC 201	5
Area IV	30
1. EDN 200; PSY 101	10
2. CHE 128, BOT 203, ZOO 204	15
3. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200	5
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Teaching Concentration	45
1. BIO 370, 480 and BOT 410 or ZOO 410	15

2. BOT or ZOO courses numbered 300+ 10
3. CHE 129, 341, 342, 343 20

C. Courses Related to Concentration 15
Three of the following: AST 201, GEL 201, MET 201, and OCE 301 or 430 15

D. Professional Sequence 35
1. EXC 310, EDU 335, 447, 481, 482, 483..... 30
2. PSY 301 or EDU 302 5

E. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF BUSINESS EDUCATION (BOOKKEEPING AND BUSINESS MANAGEMENT

Hours

A. General Requirements 101
Area I..... 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222, MUS 200; PHI 201 5
Area II 20
1. MAT 101, 195 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113..... 15
2. ECO 201 5
Area IV 30
1. ACC 211, 212; MAT 220 15
2. EDN 200; PSY 101 10
3. DRS 228 5
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252..... 5

B. Secretarial Skills Courses 23
1. OAD 202, 425; BAD 201 13
2. Two courses from: ACC 301, 302, 325 10

C. Business Administration Courses 35
BAD 225, 317, 320, 340, 360, 400, 465 35

D. Professional Sequence 37
1. EDU 240, 335, 481, 482, 483, EXC 310 27
2. BE 350, PSY 301 or EDU 302 10

E. Economics 202 5

F. Regents and Exit Exams 0

TOTAL 201

Special Note: ACC (accounting), OAD (Office) not be duplicated in Area IV. ACC (accounting), OAD (Office Administration), BAD (Business Administration), and BE (Business Education) courses taught at SSC only. Courses taken in Area I may not be duplicated in Area IV.

PROGRAM FOR THE DEGREE OF SCIENCE IN EDUCATION IN THE TEACHING FIELD BUSINESS EDUCATION (COMPREHENSIVE)

Hours

A. General Requirements 101
Area I..... 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222: MUS 200; PHI 201 5
Area II 20
1. MAT 101, 195 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113..... 15
2. ECO 201 5
Area IV 30
1. ACC 211, 212; MAT 220 15
2. EDN 200; PSY 101 10
3. DRS 228 5
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252..... 5
Secretarial Skills Courses
OAD 202, 203, 301, 312, 313, 340, 425 27

C. Business Administation Courses 35
BAD 201, 225, 317, 320, 340, 360, 465 35

D. Professional Sequence 37
1. EDU 240, 335, 481, 482, 483, EXC 310 27
2. BE 350, PSY 301 or EDU 302 10

E. Economics 202 5
F. Regents' and Exit Exams 0
TOTAL 205

Special Note: ACC (Accounting), OAD (Office Administration), BAD (Business Administration), and BE (Business Education) courses taught at SSC only.

Courses taken in Area I may not be duplicated in Area IV.

Credit by examination may be given for OAD 202, 301, 312, 340.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF BUSINESS EDUCATION (BUSINESS DATA PROCESSING AND ACCOUNTING)

Hours

A. General Requirements 101
  Area I 20
    1. ENG 101, 102, 201 15
    One course from: ART 200, 271, 272, 273; ENG 222, MUS 200; PHI 201 5
  Area II 20
    1. MAT 101, 195 10
    2. Approved laboratory science sequence 10
  Area III 20
    1. HIS 114, 115; POS 113 15
    2. ECO 201 5
  Area IV 30
    1. ACC 211, 212; MAT 220 15
    2. EDN 200; PSY 101 10
    3. DRS 228 5
  Area V 6
    1. PE 103 or 108, 117 3
    2. Three activity courses 3
  State Requirement 5
    HIS 251 or 252 5
B. Business and Data Processing Courses 38
    1. BAD 201, OAD 202 8
    2. ACC 301, 302, 440, CS 142, 231 25
    3. ECON 202 5
C. Business Administration Courses 30
    BAD 225, 317, 320, 340, 360, 465 30
D. Professional Sequence 37
    1. EDU 240, 335, 481, 482, 483, EXC 310 27
    2. BE 350, PSY 301 or EDU 302 10
E, Regents' and Exit Exams 0
TOTAL 206

Special Note: ACC (Accounting), OAD (Office Administration), BAD (Business Administration), and BE (Business Education) courses taught at SSC only.

Courses taken in Area I may not be duplicated in Area IV.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF CHEMISTRY EDUCATION

Hours

A. General Requirements 101
  Area I 20
    1. ENG 101, 102, 201 15
    2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201 5
  Area II 20
    1. MAT 101, 103 10
    2. CHE 128, 129 10
  Area III 20
    1. HIS 114, 115; POS 113 15
    2. One course from: ANT 201; ECO 201, 202; SOC 201 5
  Area IV 30
    1. EDN 200, PSY 101 10
    2. BIO 101, 102; CHE 281 15
    3. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
  Area V 6
    1. PE 103 or 108, 117 3
    2. Three activity courses 3
  State Requirement 5
    HIS 251 or 252 5
B. Teaching Concentration 35
    1. CHE 341, 342, 343, 350, 380 22
    2. CHE 491, 497 8
    3. CHE 451 or 461 or 480 5
C. Courses Related to Concentration 25
    1. PHS 211, 212, 213 or 217, 218, 219 15

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF ENGLISH EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101 and 103 or 220 or 290	10
2. Approved laboratory science sequence	10
Area III	20
1. HIS 114, 115; POS 113	15
2. One course from: ANT 201, ECO 201, 202; SOC 201	5
Area IV	30
1. DRS 228, EDN 200, PSY 101	15
2. Foreign language sequence throug 103	15
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Teaching Concentration	45
1. ENG 326, 344; 406 or 407	20
2. ENG 327 or 328	5
3. One course from: ENG 300, 302, 304, 305, 306, 307, 320	5
4. One course from: ENG 308, 309, 310	5
5. One course from: ENG 325, 410, 422	5
6. One course from: ENG 327 or 328, 400, 401, 402, 490 or 491 (Neither ENG 327 nor 328 may be duplicated to satisfy B-2 above, although both may be taken)	5
C. Courses Related to Concentration	15
1. PHI 400 or approved elective	5
2. DRS 350 or 351	5
3. EDU 423	5
D. Professional Sequence	40
1. EXC 310, EDU 335, EDN 322	15
2. EDU 439, 481, 482, 483	20
3. PSY 301 or EDU 302	5
E. Regents' and Exit Examinations	0
TOTAL	196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF INDUSTRIAL ARTS EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201	5
Area II	20
1. MAT 101 and 103 or 195	10
2. CHE 128, 129 or PHY 211, 212	10
Area III	20
1. HIS 114, 115; POS 113	15
2. ECO 201 or 202	5
Area IV	30
1. DRS 228, EDN 200, PSY 101	15
2. IAE 201, 202, 203	15
Area V	6
1. PE 103 or 108, 117	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Teaching Concentration	45
1. IAE 301, 302, 303, 312, 401	25
2. METc 212, 213	10
3. ETc 101, 102	10
C. Professional Sequence	40
1. EXC 310, 335	10
2. PSY 301 or EDU 302; EDU 481, 482, 483	20
3. IAE 411, 412	10
D. Approved Electives	10
E. Regents' and Exit Examinations	0
TOTAL	196

Special Note: IAE (Industrial Arts Education), METc (Mechanical Engineering Technology), and ETc (Engineering Technology) courses taught at SSC only.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF MATHEMATICS EDUCATION

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15

2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201 5
Area II 20
1. MAT 101, 103 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113..... 15
2. One course from: ANT 201; ECO 201, 202; SOC 201 5
Area IV 30
1. EDN 200, PSY 101 10
2. MAT 206, 207, 208 15
3. One course selected from: ART 200, 271, 272, 273; DRS 228; MUS 200..... 5
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252..... 5
B. Teaching Concentration 40
1. CS 110 5
2. MAT 220, 260, 311, 336..... 19
3. Two courses from: MAT 316, 416, 470 6-7
4. Two courses from: MAT 341, 346, 353 4-5
5. Approved MAT/CS elective 4-6
C. Professional Sequence 35
1. EXC 310, EDU 335, 441..... 15
2. EDU 481, 482, 483 15
3. PSY 301 or EDU 302 5
D. Electives 15
E. Regents' and Exit Examinations 0
TOTAL 191

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF MUSIC EDUCATION

Hours

A. General Requirements 101
Area I..... 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
Area II 20
1. MAT 101, 290 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113..... 15
2. One course from: ANT 201; ECO 201, 202; SOC 201 5
Area IV 30
1. EDN 200, PSY 101 10
2. MUS 111, 112, 113, 140, 236, 281..... 20
Area V..... 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252..... 5
B. Teaching Concentration 64-65
1. MUS 211, 212, 213, 237, 238, 239..... 15
2. MUS 240, 340 12
3. MUS 312, 330, 331 11
4. MUS 361, 371, 372, 373, 412 15
5. One of the following emphases: 11-12
a. Choral—MUS 217, 218, 353, 423, 480..... 12
b. Instrumental—
1. MUS 227, 352, 424, 481 9
2. MUS 417 or 418 or 419 2
c. Keyboard—MUS 227, 352 or 353, 425, 426 8
MUS 480 or 481 3
C. Professional Sequence 30
1. EXC 310, EDU 335, 491, 492, 493 25
2. PSY 301 or EDU 302 5
D. Recital Requirement (one-half of a senior recital 0
TOTAL 195-196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF PHYSICS EDUCATION

Hours

A. General Requirements 101
Area I..... 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200 5
Area II 20
1. MAT 101, 103 10

2. PHY 211-212 or 217-218 10
Area III 20
1. HIS 114, 115; POS 113 15
2. One course from: ANT 201, ECO 201, 202; SOC 201 5
Area IV 30
1. EDN 200; PSY 101 10
2. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
3. PHY 213 or 219; BIO 101, 102 ... 15
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252 5
B. Teaching Concentration 30
1. AST 301 5
2. PHY 380, 412, 417 15
3. Two courses from: GEL 302 MET 303; OCE 301, 430 10
C. Courses Related to Concentration 30
1. CHE 128, 129, 281 15
2. MAT 206, 207 10
3. Approved 300+ CHE elective 5
D. Professional Sequence 35
1. EXC 310, EDU 302 or PSY 301 ... 10
2. EDU 335, 447, 481, 482, 483 25
E. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF SOCIAL STUDIES WITH A CONCENTRATION IN BROAD FIELDS (HISTORY)

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
Area II 20
1. MAT 101, 220 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113 15
2. PSY 101 5
Area IV 30
1. EDN 200 5
2. One course from: ANT 201, ECO 201, GEO 201, SOC 201 5
3. One course from: ART 200, 271, 272, 273, DRS 228; MUS 200 5
4. Approved language sequence through 103 15
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
B. Teaching Concentration 35
1. HIS 251 or 252; HIS 371 or 377 10
2. HIS 300 5
3. Approved Non-Western HIS course(s) 5-10
4. Approved 300+ US HIS course 5
5. Approved European HIS course(s) 5-10
C. Courses Related to Concentration 30
1. ECO 201, 202, 363 10-15
2. GEO 211, 212, elective 10-15
3. POS 306-307 5
4. POS 317, 318, 416 or 417 5-10
D. Professional Sequence 35
1. EXC 310, EDU 335, 449 15
2. EDU 302 or PSY 301; EDU 481, 482, 483 20
E. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF SOCIAL STUDIES WITH A CONCENTRATION IN BROAD FIELDS (POLITICAL SCIENCE)

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
Area II 20
1. MAT 101, 220 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113 15
2. PSY 101 5
Area IV 30
1. EDN 200 5

2. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
3. One course from: ANT 201; ECO 201, 202; any GEO course; SOC 201 5
4. Approved language sequence through 103 15

Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3

B. Teaching Concentration 30
1. POS 306 or 307; 346 or 349 10
2. POS 329, 333 10
3. One course from: POS 317, 318, 416, 417 5
4. Approved 300+ POS course 5

C. Courses Related to Concentration 35
1. HIS 251 or 252 5
2. Courses from three of the following:
   a. GEO 211, 212, elective 10-15
   b. ECO 201, 202, 363 10-15
   c. 300+ HIS electives 10-15
   d. ANT, PSY, SOC electives 10-15

D. Professional sequence 35
1. EXC 310, EDU 302 or PSY 301 ... 10
2. EDU 335, 449, 481, 482, 483 25

E. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF SOCIAL SCIENCES WITH A CONCENTRATION IN HISTORY

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5

Area II 20
1. MAT 101, 220 10
2. Approved laboratory science sequence 10

Area III 20
1. HIS 114, 115; POS 113 15
2. SOC 201 5

Area IV 30
1. EDN 200, PSY 101 10
2. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
3. Approved language sequence through 103 15

Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3

B. Teaching Concentration 40
1. HIS 251, 252, 300 15
2. Approved Non-Western HIS courses 10
3. Approved 300+ US HIS course(s) 5-10
4. Approved 300+ European HIS course(s) 5-10

C. Courses Related to Concentration 20
1. ECO 201, GEO 211 10
2. One course from: ANT 201; POS 306, 307, 317 5
3. Approved social science elective 5

D. Professional Sequence 35
1. EXC 310, EDU 335, 445 15
2. EDU 302 or PSY 301; EDU 481, 482, 483 20

E. Regents' and Exit Examinations 0

TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF SOCIAL SCIENCES WITH A CONCENTRATION IN POLITICAL SCIENCE

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5

Area II 20
1. MAT 101, 220 10
2. Approved laboratory science sequence 10

Area III 20
1. HIS 114, 115; POS 113 15
2. SOC 201 5

Area IV 30
1. EDN 200, PSY 101 10
2. One course from: ART 200, 271, 272, 273; DRS 228; MUS 200 5
3. Approved electives 15

Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
B. Teaching Concentration 40
1. POS 306, 307, 329 15
2. POS 316 or 318; 346 or 349; 331 or 332 15
3. Approved 300+ POS electives 10
C. Courses Related to Concentration ... 20
HIS 251, 252; GEO 211; ECO 201 20
D. Elective 5
E. Professional Sequence 35
1. EXC 310, EDU 335, 445 15
2. EDU 302 or by 301; EDU 481, 482, 483 20
F. Regent's and Exit Examinations 0
TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH CORRECTION

Hours

A. General Requirements 96
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 201 5
Area II 20
1. MAT 101 and 290 10
2. Approved laboratory science sequence 10
Area III 20
1. HIS 114, 115; POS 113 15
2. ANT 201 or ECO 201 or SOC 201 5
Area IV 30
1. EDN 200; PSY 101, 202 15
2. EXC 220; HIS 251 or 252 10
3. One course from: ART 200, 271, 273; MUS 200 5
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
B. Teaching Concentration 50
1. EXC 225, 230, 315, 335 20
2. EXC 410, 411, 412, 413, 415, 420 30
C. Courses Related to Concentration 10
PSY 305, 405 10
D. Professional Sequence 40
1. EDN 304; PSY 301 or EDU 302, EXC 310 15
2. EDU 335, 422, 491, 492, 493 25
E. Regents' and Exit Examinations 0
TOTAL 196

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN SECONDARY EDUCATION IN THE TEACHING FIELD OF TRADE AND INDUSTRIAL EDUCATION

Hours

A. General Requirements 101
Area I 20
1. ENG 101, 102, 201 15
2. One course from: ART 200, 271, 272, 273; ENG 222; MUS 200; PHI 200, 201 5
Area II 20
1. MAT 101 and 103 or 195 10
2. CHE 128, 129, or PHY 211, 212 10
Area III 20
1. HIS 114, 115; POS 113 15
2. ECO 201 or 202 5
Area IV 30
1. DRS 228, EDN 200, PSY 101 15
2. TIE 100, 200, 210 15
Area V 6
1. PE 103 or 108, 117 3
2. Three activity courses 3
State Requirement 5
HIS 251 or 252 5
B. Teaching Concentration 45
1. TIE 300, 301, 303, 323 or 410 20
2. TIE 311, 313, 401, 402, 403 or technical electives 25
C. Professional Sequence 40
1. EDU 335; PSY 301 or EDU 302; EXC 310 15
2. TIE 411, 421 10
3. EDU 481, 482, 483 or TIE 431, 432, 433 15
D. Approved Electives 10
E. Regents' and Exit Examinations 0
TOTAL 196

Special Note: TIE (Trade and Industrial Education) courses taught at SSC only.

Library Science/Media

The Library Science/Media program has three emphases: (1) basic library skills courses and specialized skill courses designed to help students in specific subject areas develop research skills; (2) career courses for prospective media specialists and persons interested in public and special libraries; and (3) basic research courses which may be elected by majors in other areas.

Certification Program

Certification in Library Media may be obtained by completing 40 quarter hours in media and related courses with grades of "C" or better. This program must be incorporated into an existing teaching major. The following courses are required for certification as a media specialist:

	Hours
A. LM 300, 310, 320, 410, 420, 425	25
B. EDU 240, 451; CS 296	10
C. One course from: EDN 324, 418; EDU 423; ENG 331, 332	5

Non-Certification Program

A student may choose any field of concentration which allows a double major. The major in Library Media is comprised of the following:

	Hours
A. LM 300, 310, 320, 410, 420, 425	25
EDU 240, 451; CS 296 or 110	10-12
B. One course from: EDN 324, 418; 422, EDU 423 DRS/JRN 347	5
DRS/JRN 347	5
TOTAL	40-42

Library Media Minor

A student choosing to minor in Library Media is required to complete the following courses with grades of "C" or better in each:

	Hours
A. LM 300, 310, 320	12
B. LM 410, 420, 425	13
TOTAL	25

Learning Disabilities Endorsement

An endorsement for certification in Learning Disabilities (grades K-12) may be added to certification in elementary or middle school education by successful completion of the following courses:

EXC 312 - Introduction to Learning Disabilities
EXC 430 - Teaching Children with Disabilities
EXC 340 - Behavior Management
EDU 320 - Tests and Measurements
EXC 315 - Language Development

Secondary education students and students interested in an endorsement in Learning Disabilities need to see a Special Education advisor in the office of Secondary Education and Special Education in order to identify the appropriate courses.

OFFERINGS

SPECIAL NOTES:

1. Liability insurance or waiver is required for all courses with field experiences. Please consult course outline or professor regarding this requirement.
2. Most of the following EDU offerings are provided primarily—but not expressly—through the Department of Secondary Education. Generally, EDN and graduate level EEE courses are taught through the Department of Elementary Education and EDU, EXC, LM, and LS courses are taught through the Department of Secondary Education.

EDU Offerings

EDU 240—Education Media (1-2-2)

Workshop experience in the selection, utilization, evaluation, and preparation of various kinds of media. Emphasis is placed on utilization of media in teaching.

EDU 302—Educational Psychology (5-0-5)

A study of the learning processes and the factors that impinge upon the learner. Special consideration is given to the methods and tools used in the assessment and evaluation of learning.

EDU 320—Tests and Measurements (5-0-5)

A beginning course in measurement which covers statistical methods, research designs and research problems. Students are provided experiences in the administration and evaluation of psychological tests.

EDU 335—Secondary School Curriculum and Methods, General (3-6-5)

Prerequisite: Admission to Teacher Education; PSY 301 or EDU 302.

The study of secondary school curriculum and methods. Detailed study is given to techniques of systematic observation, preparation of behavioral objectives, analysis of critical incidents, production of media materials, practices of classroom control, and examination of instruction models. Directed practicum.

EDU 350—Improving Speech (5-0-5)

A survey of human speech development, deviation, underlying causes, and resultant handicaps. Studying standards for efficiency in oral communication with opportunities for selfhelp in upgrading personal performances. Open to all students. Especially for teaching majors.

EDU 410—Independent Study (1-8-5)

Prerequisite: Admission to Teacher Education.

Students conduct an in-depth, closely supervised instructor-approved study of a topic in education. The student is required to evidence skills in independent research and study.

EDU 415—Adolescent Psychology (5-0-5)

Focus on the phenomenon of modern adolescence. Emphasis upon the intellectual, cultural and personal transitions of the adolescent period.

EDU 423—Adolescent Literature (5-0-5)

Offered on demand. Prerequisite: Admission to Teacher Education.

EDU 439—Secondary School Curriculum and Methods, English (5-0-5)

Offered on demand. Prerequisite: PSY 301 or EDU 302 and admission to Teacher Education.

The study of secondary school English curriculum with emphasis upon materials and methods of teaching English. Directed observation.

EDU 441—Secondary School Curriculum and Methods, Mathematics (5-0-5)

Offered on demand. Prerequisite: MAT 260.

The study of secondary school mathematics curriculum with emphasis upon materials and methods of teaching mathematics. Directed observations.

EDU 445—Reading in the Secondary School (5-0-5)

This course is designed to provide students with the rationale for teaching reading as they teach their content areas in the secondary school.

EDU 447—Secondary School Curriculum and Methods, Science (5-0-5)

Offered on demand. Prerequisites: Admission to Teacher Education, PSY 301 and EDU 335.

The study of secondary school science curriculum with emphasis upon materials and methods of teaching science. Directed observations.

EDU 449—Secondary School Curriculum and Methods, Social Science (5-0-5)

Prerequisites: Admission to Teacher Education; PSY 301 or EDU 302 and EDU 335.

The study of secondary school social science curriculum with emphasis upon materials and methods of teaching social science. Directed observations.

EDU 451—Teaching Media (2-6-5)

Prerequisite: EDU 240 or permission of instructor.

Laboratory course in designing and producing instructional media: transparencies, slides, tapes and other media for teaching.

EDU 481—Student Teaching—Secondary Education-Knowledge of Content (0-V-5)

EDU 482—Student Teaching—Secondary Education—Instructional Methods and Materials (0-V-5)

EDU 483—Student Teaching—Secondary Education-Professional/Interpersonal Skills (0-V-5)

Prerequisites: See "General Requirements: Teacher Education Program."

Students are placed in selected schools for one quarter as full-time student staff members. No additional credit hours may be earned while student teaching. Classroom experiences and other staff responsibilities are jointly supervised by the college staff, supervising teachers, and principals in the selected schools. Open to transient students only with permission of the Dean of the School of Education at Armstrong and of the college from which the student comes.

EDU 491—Student Teaching—K-12-Knowledge of Content (0-V-5)

EDU 492—Student Teaching—K-12-Instructional Methods and Materials (0-V-5)

EDU 493—Student Teaching—K-12-Professional/Interpersonal Skills (0-V-5)

Prerequisite: See "General Requirements: Teacher Education Programs."

Students are placed in selected schools for one quarter as full-time student staff members. No additional credit hours may be earned while student teaching. Classroom experiences and other staff responsibilities are jointly supervised by the college staff, supervising teachers, and principals in the selected schools. Open to transient students only with permission of the Dean of the School of Education at Armstrong and of the college from which the student comes.

Exceptional Children Offerings

EXC 220—Introduction to Communicative Disorders (5-0-5)

An introduction to the types, etiologies, and remediation sources and techniques of various communicative dysfunctions in children and adults in the areas of language, articulation, voice and stuttering. Emphasis is on the recognition and awareness of these disorders, appropriate classroom strategies, and treatment referral.

EXC 225—Phonetics for Speech Correctionists (3-4-5)

Deals with the use of the International Phonetic Alphabet (IPA) in speech correction, IPA transcription of normal and defective articulation and the important characteristics of regional dialects are stressed.

EXC 230—Anatomy and Physiology of the Speech and Hearing Mechanism (4-2-5)

Anatomy and physiology of the head, neck, and thorax from a speech and hearing standpoint. Special emphasis is placed on functional considerations of the respiratory system, larynx, oral and nasal structures, and ear.

EXC 310—Introduction to Exceptional Children (5-0-5)

Prerequisite: EDN 200 and PSY 301 or EDU 302.

An orientation to exceptional children with emphasis on educational implications and rehabilitation requirements. Includes classroom discussion of and visitatons to facilities for training.

EXC 312—Introduction to Learning Disabilities (5-0-5)

Prerequisites: EXC 310 offered on demand. An introduction to the area of specific learning disabilities, with an emphasis on identification, terminology, and prevalence.

EXC 315—Normal Speech and Language Development (4-2-5)

The study of normal language development with emphasis on oral language. This course traces developmental scales of speech and language growth across various age levels and includes the relationship between speech and language. Observations.

EXC 335—Speech Science (4-2-5)

Speech communication from a psychophysical standpoint. Study focuses on acoustics, physics of speech, transmission media, and physical analysis of speech.

EXC 340—Behavior Management for the Exceptional Child (5-0-5)

A study of the application of behavioral principles for the management and growth of exceptional learners. Consultation in using the principles with other teachers and with parents will also be emphasized.

EXC 410—Introduction to Audiology (3-4-5)

An introduction to the methods of hearing assessment through pure tone and speech audiometry, with a focus on rehabilitation of the hearing impaired. Supervised clinical practice.

EXC 411—Stuttering (4-2-5)

Prerequisite: Permission of Instructor.

An introduction to the problem of stuttering, its possible causes and the management training of cases. Supervised clinical practicum.

EXC 412—Language Disorders (4-2-5)

Prerequisite: Permission of Instructor.

An introduction to language disorders of children and adults. Etiologies, evaluation procedures, and therapeutic approaches are studied. Major emphasis will be given to delayed language development. Supervised clinical practicum.

EXC 413—Organically Based Communication Problems (4-2-5)

Prerequisite: Permission of Instructor.

The course includes a study of the communication problems related to disorders of voice, cleft palate, and cerebral palsy. Supervised clinical practicum.

EXC 415—Articulation Disorders (3-4-5)

Prerequisite: EXC 225.

A study of the etiology, rationale, evaluation, and methods of therapy for disorders of articulation. The course includes the development of a therapeutic program, lesson plans, and supervised clinical practicum.

EXC 420—Public School Program Administration (2-6-5)

Prerequisite: Permission of Instructor.

Administration and implementation of public school speech therapy programs including identification, case load selection, scheduling, inservice, and relationship of speech therapy to the total school program. Supervised clinical practicum.

EXC 422—Manual Language for the Deaf (4-2-5)

Offered on demand.

A study of the practices, procedures and methods in teaching manual language to the deaf, with a review of the historical philosophies and current trends and literature. At the conclusion of the course the student will have a working ability to communicate with a manual deaf individual as well as the ability to teach deaf children the process of manual language.

EXC 430—Teaching Children with Learning Disabilities (3-4-5)

Prerequisites: EXC 213, Introduction to Learning Disabilities and EDN 422, The Teaching of Reading. Offered on demand.

Teaching strategies for children with specific learning disabilities. A focus on approaches, techniques, and materials with directed application.

Library Media/Science Offerings

LM 300—Introduction to Media Profession (2-0-2)

An introductory course in which students examine the role, functions and services of different types of libraries and information centers. Emphasizes the role and responsibilities of librarians/media specialists. Includes also the social role of libraries and library networks. The student is given an opportunity to be involved in public, school, and special libraries during field experience.

LM 310-Reference Sources (5-0-5)

Study of basic reference sources, including searching strategies. The course has two phases: (1) study and evaluation of major types of references and information sources; (2) study of specific sources of information in elementary and secondary schools as well as specific sources for a subject field.

LM 320—Cataloging and Classification (5-0-5)

Introduction to the basic principles of cataloging and classification of multimedia materials combined with practical experience. Dewey Decimal and Library of Congress Classification; Sears and Library of Congress Subject headings; purchasing of printed library cards, and their adaptation and arrangement in the card catalog. Problems peculiar to the media specialist are considered. Practical experience is also offered.

LM 410-Media Selection (3-0-3)

Winter.

Selection of various types of media, based on fundamental principles and objectives. The course has three phases: (1) selection criteria, source list and their use in media selection, publishing, and order process; (2) selection and evaluation of media for children considering curricular considerations and understanding of the media specialist's reponsibilities toward guidance in media; and (3) selection and evaluation of media for young adults considering curricular correlations and enrichment; recreational and developmental needs; young adult services and programs. Includes field experiences.

LM 420—Administration of Information Centers (5-0-5)

Spring. Prerequisites: LM 300, 310, 320, 410.

Study of organization and administration of all types of information centers including administering the budget, purchase of materials, personnel, circulation, equipment, routines and schedules, maintenance of the collection, preventive maintenance and minor repairs of equipment, and relations with administration and users will be considered. Students will examine the role of the media specialist in the curriculum process and media

center instruction and orientation. School library media philosophies and educational objectives will also be examined. Concurrent enrollment in Media Internship is recommended.

LM 425—Media Internship (0-12-5)

Offered on demand. Prerequisites: LM 300, 310, 320, 410, with a grade of "C" or higher and concurrent enrollment in LM 420.

Supervised experience in library media center, or other appropriate setting. Students must complete 120 clock hours of work. Offered on a pass/fail basis. Application for the Internship must be made at least one quarter in advance.

LS 110—Introduction to Library Research and Materials (1-0-1)

An orientation to the library, library terminology, search strategy formation, and major library aids such as the card catalog, classification and subject heading guides, periodical indexes and abstracts, encyclopedias, dictionaries, almanacs, handbooks and yearbooks, reviews, and criticisms, and biographical sources. This course will provide students with opportunities to learn how to access information in a variety of formats so that they can continue life-long learning.

LS 311—Principles of Library Research and Materials (1-0-1)

A study of general research methodology and tools. The methodology aspect will focus on two main areas of concern: (1) the question-transfer and negotiation process, and (2) the ability to recognize ready reference, bibliographic and evaluative reference/research questions. The study of tools will focus on the recognition and application of the proper sources for solution. A research project approved by the professor is required as partial requirement for completion of course.

LS 312—Information Resources in the Humanities (1-0-1)

Extensive study of basic and advanced reference materials and search techniques in the humanities.

LS 313—Information Resources in the Social Sciences (1-0-1)

Extensive study of basic and advanced reference materials and search techniques in the social sciences.

LS 314—Information Resources in the Sciences (1-0-1)

Extensive study of basic and advanced reference materials and search techniques in the sciences.

SSC Business Education Offerings

Special Note: The following courses are requirements of varied Bachelor of Science in Education degree programs offered cooperatively with Savannah State College. The courses are listed in alphabetical order by course description prefix. The prefix codes are spelled out in the degree programs themselves.

ACC 211-212—Principles of Accounting I and II (5-0-5)

Fall, Winter. Prerequisites: A grade of "C" or better in Math 101 and 220.

An introduction to the fundamental principles and procedures of accounting. Detailed study of the technique and formation of balance sheets, income statements, ledger accounts, and journals.

ACC 301-302. Intermediate Accounting I and II (5-0-5)

Prerequisites: ACC 211-212.

Theory and problems application of accounting. Includes analysis, interpretation, and applications of statements, investments, funds, and evaluations of fixed assets and liability accounts.

ACC 325-326. Federal Income Tax Procedures I and II (5-0-5)

Prerequisite: ACC 212.

An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns. Part II emphasizes federal taxation on corporations and fiduciary returns, gift taxes and estate taxes.

ACC 440—Business Information Systems (5-0-5)

Prerequisite: ACC 302 or consent of instructor.

Basic computer concepts applied to systems and methods design, data flow analysis, and the development of an understanding of a need for control procedures in a business information system.

BAD 201—Introduction to Business Data Processing (5-0-5)

A concepts course on methods of processing data as related to business, includes the use of terminals and microcomputer systems as facilitating units for the recording and reporting of data. Included in the course of study are the telecommunication terminal systems and the languages necessary to communicate with a computing system.

BAD 317—Business Law I (5-0-5)

A study of legal rights, social forces and government regulations affecting business; an in depth study of the law of contracts; the law of personal property and bailments.

BAD 225—Business Communications (5-0-5)

Spring, Summer. Prerequisite: ENG 101.

The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications in relation to new media enters into the consideration given to communication theory.

BAD 320—Business Finance (5-0-5)

Prerequisite: BAD 331.

Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing, major types of short-term and long-term debt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of inter-corporate financing. Prerequisite; BAD 331.

BAD 340—Principles of Marketing (5-0-5)

Prerequisite: ECO 201.

The distribution of goods and services from producer to consumers, market methods employed in assembling, transporting, storage, sales and risk taking; analysis of the commodity, brands, sales methods and management; advertising plans and media.

BAD 350—Materials of Teaching Business Subjects (5-0-5)

Winter. Prerequisite: appropriate background in Business and Office Administration.

An analysis of specialized methods used in teaching business subjects on the secondary level from which the student involves personal philosophy to determine teaching procedures. Includes basic principles and curriculum structure of general and vocational business education

BAD 360—Business Organization and Management (5-0-5)

Fall.

A comprehensive study of principles of business organization and management. Emphasis is placed upon reports by students in which they collect data and make analyses necessary for organizing a business of their own choosing.

BAD 400—Personal Finance (5-0-5)

Devoted to family financial matters including budgeting, expenditures, taxes, credit, savings, investments and insurance, mutual funds, estate planning, trusts, wills, estate and gift taxes.

BAD 425—Managerial Accounting (5-0-5)

Prerequisites: ACC 212, BAD 331 and BAD 360.

The study, interpretation and analysis of financial statements as tools of the management decision-making process. Some knowledge of statistical procedures as well as basic accounting procedures are needed for studying this course.

BAD 465—Business Policy (5-0-5)

The integration of knowledge of the various fields of business, with emphasis on decision making. Case study approach.

ECO 201—Principles of Macro-Economics (5-0-5)

Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy and international trade.

ECO 202—Principles of Micro-Economics (5-0-5)

Basic economic concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems.

IAE 201—Wood Processing I (3-7-5)

Fall. Prerequisite: ENT 102.

Care of tools and machinery, basic hand

and machine operations, materials selection and finishing.

IAE 202—Wood Processing II (3-7-5)
Winter. Prerequisite: IAE 201.
A study of the construction of more advanced projects by the use of power tools and machines, and woodfinishing.

IAE 203—Industrial Arts Design (3-7-5)
Spring.
Opportunities are provided for the development of design sensitivity and an appreciation for the aesthetic quality of products. Consideration is given also to the analytical and problem-solving procedures of the industrial designers.

IAE 301—Architectural Drafting (3-7-5)
Fall. Prerequisite: ENT 102.
A study of house planning and the making of architectural working drawings.

IAE 302—Power Mechanics (3-7-5)
Winter.
A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets.

IAE 303—Graphic Art Technology (3-7-5)
Instruction in the printing processes and areas related to the process. Experiences will include graphic design, composition, photography, offset printing and the screen process.

IAE 312—General Electricity (3-7-5)
Fall. Prerequisite: MAT 108.
The nature, forms and sources of electricity, conductors, insulators, electrical measurements, low voltage and residential wiring, electrical heating and lighting.

IAE 401—Industrial Arts Electronics (3-7-5)
Winter. Prerequisite: IAE 312.
Electro-magnetism, relays, transformers, diodes, power supplies, test equipment, small project construction and troubleshooting.

IAE 411—Curriculum Building and Shop Organization (5-0-5)
Winter. Prerequisites: Admission to Teacher Education, PSY 301.
A study of the techniques of curriculum development, shop organization and management.

IAE 421—Methods of Teaching Industrial Arts (5-0-5)
Winter. Prerequisites: Admission to Teacher Education, PSY 301.
Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts.

MET 212—Metal Fabrication (3-7-5)
Winter. Prerequisite: ENT 102.
A study of various metal forming, joining and casting techniques using a variety of metals and processes. Study includes the care, setup and operating principles of equipment.

MET 223—Metal Machining Processes (3-7-5)
Spring. Prerequisite: IAE 212.
A study of lathes, milling machines, shapers, drill presses, grinders, saws, and other machine tools.

OAD 201. Beginning Typewriting/ Keyboarding (1-4-3)
Current typing techniques and the application of skills in typing letters, manuscripts, and simple tables. Minimum standard for passing: 30 words per minute on timed writings.

OAD 202. Intermediate Typewriting (1-4-3) (See special note).
Introduction to production typewriting. Skill development in the typing of business letters, forms, tabulation, and formal reports. Minimum passing speed: 40 words per minute.

OAD 203—Advanced Typewriting (1-4-3)
Production typewriting of office correspondence, business letters, forms, tabulations, reports, legal and medical documents. Prerequisite: OAD 202. Minimum passing speed: 50 words per minute.

OAD 300—Office Machines (1-8-5) (Same as BAD 300)
Acquaintanceship level of development on five basic classes of machines: adding and calculating; copy preparation, duplication; keypunching; and word processing units. Prerequisite: Typing proficiency.

OAD 301—Office Procedures (5-0-5)
The study of secretarial and/or clerical procedures and duties commonly encountered in business offices. Emphasis is also placed on the development of desirable personal traits. Typing proficiency required.

OAD 311—Beginners Shorthand (1-4-3)
The acquisition of shorthand fundamentals. Minimum standard for passing: 60 words per minute for three minutes with 95 percent accuracy.

OAD 312—Intermediate Shorthand (1-4-3)(See special note)**
Continued development of theory, reading and writing skills, introduction to new matter dictation, and transcription of mailable letters. Minimum standard for passing: 80 words per minute for three minutes with 95 percent accuracy. Prerequisites: OAD 202 and OAD 311.

OAD 313—Advanced Shorthand (1-4-3)
Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing at the end of the course: 100 words per minute with 95 percent accuracy. Prerquisite: OAD 312.

OAD 340—Word Processing Concepts and Techniques (2-6-5)
The development of basic concepts and operational techniques on selected Word Processing units. Prerequisite: OAD 301. Typewriting proficiency required.

OAD 425—Administrative Management (5-0-5)
A systems approach that provides the framework for understanding the role of the administrative manager in today's modern enterprise. In-depth treatment and analysis of the tools, techniques, and concepts which make the efforts of the administrator more effective.

SPECIAL NOTE
**OAD 202 — INTERMEDIATE TYPEWRITING AND OAD 312 — INTERMEDIATE SHORTHAND are designed for Office Administration majors who have demonstrated proficiency in typewriting and/or shorthand.

A student who cannot perform effectively on the typing theory test and who cannot type at a minimum rate of 30 words per minute should take OAD 201—Beginners Typewriting prior to enrolling for the intermediate course.

A student who cannot perform effectively on the shorthand theory and who cannot take shorthand at a minimum of 60 words per minute should take OAD 311 — Beginners Shorthand prior to enrolling for the intermediate course.

Advisement and/or placement tests for these courses are given prior to the beginning of each quarter.

TIE 100-200-210-300—Cooperative Industrial Work Experience (0-0-5)
All quarters.

Student works in industry under the supervision of a college coordinator to gain practical work experience in the occupational area he plans to teach. If the student has prior acceptable work experience in his occupational area, credit will be granted in these courses proportionately.

TIE 301—History of Vocational Education (5-0-5)
A study of the development of vocational-industrial education in the United States, with emphasis on personalities and technical developments that influenced its growth.

TIE 303—Shop Management (5-0-5)
A study of the sources of materials, means of purchasing, methods of inventorying; systems of arranging, installing, maintaining, storing and issuing shop tools and equipment.

TIE 311-313-401-402-403—Competency in Occupation (0-0-5)
Graduates of vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations or other evidences of competency.

TIE 323—Occupational Analysis (5-0-5)
A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes.

TIE 410—Instructional Aids (5-0-5)
This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education.

TIE 411—Industrial Education Curriculum (5-0-5)
Winter. Prerequisites: Admission to Teacher Education, PSY 301.

A study of course making and curriculum development with emphasis on organizing

instructional materials for vocational-industrial education programs.

TIE 421—Methods of Teaching Industrial Subjects (5-0-5)

Winter. Prerequisites: Admission to Teacher Education, PSY 301.

The techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets, using a variety of instructional media, and measuring student achievement in trade and industrial education.

TIE 431-432-433—Teaching Internship in Trade and Industrial Education (0-V-5)

All quarters.

A cooperative undertaking between the college and public school system to provide college supervision for employed permit trade and industrial education teachers. This experience is for one academic term and may be taken in lieu of EDN 480, 481, 482. Prerequisites: EDN 335, TIE 411, 421; vocational teaching permit; full-time employment as a trade and industrial education teacher; and approval of teacher's employer.

School of Health Professions

Repella, James, Dean

Goals and Objectives

The faculty of the School of Health Professions believes that the development of the student as an individual is a primary objective of a college education. The central role and function of the School of Health Professions is to provide an appropriate academic, intellectual, and professional milieu to develop the skills required for a high level of professional competence. This includes the development of intellectual and physical competencies; personal values and beliefs; leadership abilities; a sense of integrity, self-worth, and self-reliance; and a sense of responsibility toward the community and society. To achieve these objectives, the goals of the School are:

To prepare graduates who possess, at the appropriate level, the competencies required in their professional endeavors, and whose practice is compatible with the ethics of democratic humanistic philosophy;

To prepare an educational environment which will motivate the student to develop a lifelong commitment to learning and services; stimulate creativity, flexibility, and independence of thought and judgement within acceptable professional and humanistic constraints; and foster appreciation for scholarship and critical reasoning;

To develop the leadership abilities of students so they may function effectively as leaders both in their professions and in their communities;

To anticipate and to identify problems and needs and to encourage change and open-mindedness in finding solutions through appropriate research.

To develop the School as a planning and resource center for professional growth and community service;

To complement other Schools of the College by providing programs of a uniquely professional character which enhance the educational opportunities of Armstrong State College.

Organization and Degrees

The School of Health Professions includes the Departments of Associate Degree Nursing, Baccalaureate Degree Nursing, Dental Hygiene, Respiratory Therapy, and the degree programs in Health Science, Health Information Management, Medical Technology and Radiologic Technologies.

The following degree programs are offered within the School:

Associate in Science in
- Dental Hygiene
- Health Information Management
- Nursing
- Radiologic Technologies
- Respiratory Therapy

Bachelor of Health Science

Bachelor of Science in
- Dental Hygiene Education
- Medical Technology
- Nursing

Additional degree programs, those at the masters level, are delineated in the graduate section of this catalog.

Associate Degree Nursing

Faculty

Vacant, Department Head
Bell, Dorothy
Caldwell, Eva
Dutko, Kathleen
Hepner, Freddie, Acting Dept. Head
Miller, Mary
Pruden, Ginger
Timberlake, Sara
Williamson, Jane

The Associate in Science degree program in Nursing provides the student with the opportunity to obtain a general education and to study nursing at the college level. The program is approved by the Georgia Board of Nursing and is fully accredited by the National League for Nursing (NLN). Graduates are eligible to make application to take the National Council of State Boards of Nursing Licensure Examination (NCLEX-RN) for licensure to practice as Registered Nurses. Student nurses participate in nursing clinical experiences at local hospitals and other community agencies and are responsible for providing their own transportation.

Progression Requirements

For progression through the Associate Degree Nursing Program, the following must be maintained:

1. Natural science courses (CHE 201; ZOO 208, 209; BIO 210)
   a. A grade of D or above is required for CHE 201 and BIO 210. Only one D will be allowed.
   b. A grade of C or above is required for ZOO 208 and 209.
   c. A grade of C or above in ZOO 208 is required by the end of the Fall quarter in the Freshman year. A grade of C or above in ZOO 209 is required by the end of the Spring quarter in the Freshman year. Students who do not meet these requirements will be dismissed from the program.
   d. A student may repeat only one of these courses.
   e. Students who must repeat more than one science course because of grades of "F" will be dismissed from the program with no option for readmission.
2. Nursing courses
   a. A "C" or better in each nursing course that is a prerequisite for the subsequent nursing course.
   b. A student may repeat a given nursing course only one time.
   c. A student may repeat only one nursing course.
   d. Students who must repeat any one nursing course more than one time will be dismissed from the program with no option for readmission.
   e. Students who must repeat more than one nursing course will be dismissed from the program with no option for readmission.
3. Grade Point Average

The maintenance of a 2.0 GPA is desirable throughout the nursing program. Students who fall below 2.0 are subject to the academic status classification delineated in the Academic Regulations section of this catalog. Students placed on academic warning who do not raise their GPA's to the stipulated GPA the subsequent quarter will be suspended from the program until such time the GPA meets requirements. Courses used to raise the GPA must have Department Head and Admissions Committee approval.

Insurance

To meet contractual obligations with the cooperating clinical agencies, the Department requires students to submit a completed health history form and evidence of nursing liability and hospitalization insurance prior to participation in clinical practicums.

PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN NURSING

	Hours
A. General Requirements	53
Area I	10
1. ENG 101, 102	10
Area II	20
1. BIO 210, CHE 201	10
2. ZOO 208, 209	10
Area III	15
1. HIS 251 or 252	5
2. POS 113	5
3. PSY 101	5
Area V	3
1. PE 117 and one activity course or three activity courses	3

Elective	5
B. Courses in the Major Field	55
1. NUR 100, 101, 102, 103, 104	27
2. NUR 201, 202, 206	28
C. Regents' and National Standardized Nursing Examinations	0
TOTAL	108

NUR 100 and 100-L—Fundamentals of Nursing (2-8-6)

Fall. Prerequisite: Admission to the nursing program. Eligibility for ENG 101 and MAT 101. Pre- or corequisite NUR 104 and ZOO 208. May be exempted by examination with credit awarded. Students must first be admitted to program to sit for exemption test. Only eligible students are allowed to sit for exemption test. Medical corpsmen or licensed practical nurses who have graduated and/or have practiced in a clinical setting within the past two years are eligible for this test. Proof or documentation of above is required. Exceptions to these criteria will be made on an individual basis. One exemption test is offered for NUR 100 and NUR 101. This test may be taken only once.

This course is designed to provide the student with learning opportunities that increase the understanding of the basic needs of man according to Maslow and the principles of growth and development. The nursing process is used to promote adaptation in patients with basic and chronic health problems related to safety, mobility, comfort and rest, nutrition, elimination and sexuality. The student is encouraged to begin developing awareness of self and others and to consider the fundamental dignity of each individual.

NUR 101 and 101-L—Fundamentals of Nursing (2-8-6)

Winter, Spring. Prerequisites: NUR 100, NUR 104, ZOO 208. Pre- or corequisite: CHE 201 or ZOO 209. May be exempted by examination with credit awarded.

A continuation of Nursing 100. Needs of patients resulting from common stressors are emphasized. Skills of technical and interpersonal intervention are applied to assist the patient to increase his adaptive potential. Topics include administration of medications and therapeutic interventions. Specific stressors in the following areas are dealt with: elimination, fluid and electrolyte balance, and pre-post operative care.

NUR 102—Maternal-Infant Health (2-8-6)

Winter, Spring. Prerequisites: NUR 100, NUR 104, ZOO 208. Pre- or corequisite: NUR 101, CHE 201 or ZOO 209.

This course is designed to assist the student to utilize the nursing process to help families to maintain or improve their adaptation to the stress in the child-bearing phase of the life cycle. The needs of the pregnant couple or woman in pregnancy, parturition and post partum as well as the needs of the newborn are emphasized.

NUR 103—Psychiatric-Mental Health Nursing (2-8-6)

Winter, Spring. Prerequisites: NUR 104, NUR 100, ZOO 208. Pre- or corequisite: PSY 101, CHE 201, or ZOO 209.

This course focuses on the development of self-awareness and on the therapeutic use of self in assisting man to achieve and maintain his optimal level of mental health. The nursing process is utilized in providing nursing care for the patient with problems of psycho-social adaptation. Throughout this course, the patient is considered not only as an individual with inherent dignity and worth but also as a member of a family within a community. His areas of need and developmental level and tasks are also closely examined.

NUR 104—Introduction to Nursing (3-0-3)

Fall. Prerequisite: Permission of the Department. Eligibility for ENG 101 and MAT 101. Pre- or corequisite: NUR 100.

This course introduces the students to nursing as a profession. The course is an orientation to professional accountability and responsibility. The foundational concepts of the needs of man in health and illness are considered within the growth and development phase of the life span and within the stress adaptation continuum.

NUR 201 and 201-L—Nursing of Adults and Children I (4-8-8)

Prerequisites: NSG 100, 101, 102, 103, 104 and ZOO 208, 209 and CHE 201.

NSG 201 focuses on patients having problems with interaction, oxygenation, inflammation and immunity and perception and coordination. Background knowledge relating to these concepts is utilized and incorporated in the nursing care of the ill adult and child. Learning

experiences are directed toward the care of patients with uncomplicated, commonly occurring stressors which exemplify these concepts. The learner uses the nursing process in providing nursing care to ill patients.

NUR 202 and 202-L—Nursing of Adults and Children II (4-8-8)

Winter. Prerequisite: NSG 201. Pre- or co-requisite: BIO 210.

NUR 202 is the second of three quarters study of the ill adult and child. Patients experiencing problems with metabolism, perception, coordination and cell growth are added to the foundation built in NSG 201 as the student implements the nursing process in the care of patients undergoing stress in increasingly complex situations.

NUR 206 and 206-L—Advanced Nursing (4-16-12)

Spring. Prerequisite: NSG 202.

NUR 206 is the third of three quarters' study of the physically ill patient. Emphasis is placed on utilization of the nursing process for adults and children having a multiplicity of needs. Patients experiencing problems with Oxygenation, Perception and Coordination, Metabolism and Fluids and Electrolytes provide the basis for study of the critical care aspects of nursing. Under supervision, the student develops beginning skill in the direction and management of patient care. Assigned and self-directed learning experiences assist the student in making the transition from the role of student to practitioner.

Baccalaureate Degree Nursing Faculty

Buck, Marilyn, Department Head
Keller, Carola
Levett, Nettie
Massey, Carole
Repella, James
Roesel, Rosalyn
Schmitz, Catherine
Silcox, Elaine
Zink, Margo

The Department of Baccalaureate Nursing offers a curriculum which provides entering freshmen, transfer students, and Registered Nurses the opportunity to earn the Bachelor of Science in Nursing Degree. The program prepares a professional nurse generalist who can provide comprehensive nursing care to individuals, families, groups and the community in a variety of settings. Baccalaureate nursing education also provides the foundation for graduate study in nursing. The program is approved by the Georgia Board of Nursing and is fully accredited by the National League for Nursing (NLN). Graduates who are not already Registered Nurses may apply to take the NCLEX examination for licensure as an RN.

PROGRESSION REQUIREMENTS

For the generic Bachelor of Science Program:

1. A "C" or better must be earned in each science course.
2. A "C" or better must be earned in each nursing course. No more than one nursing course may be repeated and a "C" or better must be earned at the time to remain in the program.
3. Any nursing course which the student does not satisfactorily complete must be repeated, at its next offering. The course may be taken concurrently with a non-sequential course.
4. An overall grade-point average (GPA) of 2.0 is required to remain in the nursing program.
5. Students must maintain a current health history and proof of liability and health insurance.
6. Students must obtain and maintain CPR certification while enrolled in the program.
7. After admission to the Nursing Major, the Registered Nurse may challenge BSN 330, 334, 335, 336, 350, 422 and 423 through written examinations.

   No more than one-fourth of the degree requirements may be taken by correspondence, extension or examination. (for further information see BSN Department).

If a student does not matriculate each quarter, excluding Summer Quarter, the student must reapply for admission to the College and to the Department. See Readmission, p. 15.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

	Hours
A. General Requirements	101
Area I	20
1. ENG 101, 102, 201	15
2. One course selected from: ART 200, 271, 272, 273; MUS 200; PHI 200, 201; ENG 222	5
Area II	20
1. CHE 121, 122*	10
2. MAT 101, 220	10
Area III	25
1. HIS 114, 115	10
2. POS 113 and HIS 251 or 252	10
3. PSY 101	5
Area IV	30
1. BIO 210; PSY 295, SOC 201, ZOO 208, 209, 215	30
Area V	6
1. PE 117 or 211 and 103 or 108	3
2. Three activity courses	3
B. Courses in the Major Field	80
1. BSN 231, 330, 334, 335, 336, 340, 350, 422, 423, 432, 433, 434, 435	80
C. Courses in Allied Fields	11
1. LS 311	1
2. Electives	10
D. Regents' and Exit Examination	0
Total	192

*Students who have already completed CHE 201 with a "C" or better may challenge CHE 121 and take CHE 122 or complete an approved lab science sequence of Core Area II. Students who have already completed an approved Area II lab science sequence may take CHE 201.

Curriculum Design

—Freshman Year—

Fall

ENG 101	5
CHE 121	5
MAT 101	5
PE	1
	16

Winter

ENG 102	5
CHE 122	5
HIS 114	5
PE 103 or 108	1
	16

Spring

ENG 201	5
HIS 115	5
ZOO 208	5
PE 117 or 211	2
	17

—Sophomore Year—

Fall

PSY 101	5
ZOO 209	5
Area I Elective	5
PE	1
	16

Winter

BIO 210	5
MAT 220	5
SOC 201	5
LS 311	1
	16

Spring

PSY 295	5
BSN 231	5
ZOO 215	5
PE	1
	16

—Junior Year—

Fall

BSN 330	7
PS 113	5
Elective	5
	17

Winter

BSN 334	6
BSN 340	5
BSN 336	3
	14

Spring

BSN 335	6
BSN 350	6

HIS 251 or 252 5
17

—Senior Year—

Fall

BSN 422 6
BSN 423 6
BSN 432 5
17

Winter

BSN 433 10
Elective 5
15

Spring

BSN 434 12
BSN 435 3
15

OFFERINGS

BSN 231—A Conceptual Framework for Professional Nursing (5-0-5)

On demand. Prerequisite: LS 311, PSY 101, SOC 201.

Designed for beginning students of professional nursing. The conceptual framework of the baccalaureate curriculum is examined. Major emphasis is placed on an introduction to the concepts of Nursing, Man and Health.

BSN 330—Health Promotion of the Well Individual (4-9-7)

Fall. Prerequisites: BSN 231, PSY 295 and all required science courses.

An introductory course which provides knowledge and experiences related to application of the nursing process with well individuals throughout the life-cycle. Emphasis is placed upon assessment of human needs in infancy through advanced age as well as the selection and use of psychomotor and interpersonal skills designed to promote positive adaptation. The student assumes the role of a professional nurse by using health assessment, psychomotor and interpersonal skills to promote the health of well individuals in selected clinical settings.

BSN 334—Health Restoration of Adults I (4-6-6)

Winter. Prerequisite: BSN 330.

This course provides students with the opportunity to assist patients to cope with alterations in the ability to meet human needs related to the concepts of oxygenation, fluid and electrolytes, perception and coordination, and metabolism. Previously acquired knowledge and skills, new knowledge and current research are incorporated into the nursing process to promote positive adaptation of adults The student assumes the role of the professional nurse in secondary health care settings.

BSN 335—Promotion of Psychosocial Adaptation (4-6-6)

Spring. Prerequisites: BSN 330, 340.

This course is designed to assist students to promote positive adaptive behavior of individuals within a family system with psycho-social problems through the use of the nursing process. Communication skills, the establishment of the nurse patient relationship and teaching-learning strategies assist the patient in the achievement of optimal health potential. Trends in mental health, legal issues and the role of the nurse in the psychiatric setting are examined. Clinical experiences are provided in secondary health care settings and community mental health facilities.

BSN 336—Leadership in Nursing Care Management (3-0-3)

Winter. Prerequisite: BSN 330.

Introduces management and leadership principles and applies them to nursing. The focus of this course is on the leadership role of the professional nurse in the management of health care.

BSN 340—Nursing and Family Health (5-0-5)

Winter. Prerequisite: BSN 330.

Designed to explore the family as a biopsychosocial unit of a multi-cultural society. Internal and external variables affecting the health and adaptation of the family system are considered. The nursing process is utilized as a framework to assess structural and functional needs, plan nursing interventions, and develop outcome criteria.

BSN 350—Nursing and the Childbearing Family (4-6-6)

Spring. Prerequisites: BSN 334, 340.

Using the developmental approach, this course focuses on health promotion and restoration of the childbearing family. The nursing process is utilized to assess health needs and

promote positive adaptation. Clinical learning experiences are provided in a variety of settings.

BSN 422—Health Restoration of Adults II (4-6-6)

Fall. Prerequisites: BSN 334, 335, 336, 340.

This course provides students with the opportunity to assume a beginning leadership role in the management of adult individuals and their families who are experiencing maladaptive responses related to complex alterations in the ability to meet basic human needs. The student uses the nursing process as a problem solving approach to identify individual and family needs, plan nursing interventions, and evaluate patient response based on predetermined outcome criteria. The student is responsible and accountable for directing and implementing nursing activities that assist patients toward positive adaptation. Students participate in discharge planning through cooperation and collaboration with patients and other members of the health care team. Clinical experiences are provided in secondary health care settings.

BSN 423—Health Restoration of the Child (4-6-6)

Fall. Prerequisites: BSN 336, 340, 334.

This course provides the student with the variation of dealing with the care of the child from infancy to adolescence. The student uses the nursing process as a problem solving approach in the care of children experiencing alterations in their ability to meet human needs. Unique communication techniques, such as play therapy, are utilized by the student in her role as a professional nurse in this setting. Teaching-learning principles are altered for the child and family as appropriate for the family's cultural interpretation of child rearing. The student, in a leadership role, is responsible and accountable for directing and implementing nursing activities that assist the child in his ability to gain positive adaptation. Clinical experiences are provided in secondary care and community settings.

BSN 432—Nursing Research (5-0-5)

Fall. Prerequisites: All Junior level Nursing courses and MAT 220.

The purpose of this course is to expand the student's knowledge of a scientific method of inquiry. Emphasis is placed on exploring the research process and how it relates to nursing theory and practice.

BSN 433—Nursing and Community Health (5-15-10)

Winter. Prerequisites: BSN 422, 423, 432.

This course is designed to provide students with the knowledge and opportunity to utilize the nursing process to assist families, groups and the community to promote, maintain and restore health. Students assume the various roles of the professional nurse in selected community settings.

BSN 434—Professional Nursing Practicum (4-24-12)

Spring. Prerequisite: BSN 433.

Provides the opportunity for students to synthesize knowledge from the liberal arts, sciences and nursing as a basis for professional nursing practice. Students practice the leadership role of the professional nurse in assessing, planning, implementing and evaluating nursing care in a selected clinical setting. Research findings are incorporated into nursing practice.

BSN 435—Senior Seminar (3-0-3)

Spring. Prerequisite: BSN 433.

Student evaluate forces and factors which influence changes in professional nursing practice. Current professional issues and trends and the transition from student to graduate professional nurse are included.

Dental Hygiene

Faculty

Simon, Emma, Department Head
Coursey, Theresa
Edenfield, Suzanne
Fleming, Caroline
Russell, Carol
Tanenbaum, Barbara

The student must complete a curriculum of 58 quarter hours in academic courses and 56 quarter hours in professional dental hygiene courses for the two-year program leading to the Associate in Science Degree in Dental Hygiene. Dental hygienists provide dental health services in private dental offices, civil

service positions, industry, and in various public health fields. They practice under the supervision of a dentist and must pass a state board examination for licensure. The curriculum is fully approved by the Commission on Accreditation of Dental and Dental Auxiliary Educational Programs of the American Dental Association.

A passing grade in all related natural science courses is a prerequisite to the 200 level Dental Hygiene courses; therefore, CHE 201, ZOO 208-209, and BIO 210 must be satisfactorily completed before the student will be admitted into second-year status in the Dental Hygiene Program.

The student must earn a "C" or better in each Dental Hygiene course before registering for subsequent dental hygiene courses; therefore, a grade of "C" or better in the previous course(s) is a prerequisite for each dental hygiene course for which the student registers after the first quarter of the first year. An overall GPA of 2.0 is required for graduation from the program.

The Bachelor of Science in Dental Hygiene Education program is comprised of preparatory courses that will enable the student to be employed in areas such as dental hygiene and dental assisting instruction, dental health education in public school systems, and public health. The student will work directly with the dental hygiene faculty and participate in the student teaching practicums in various associate degree classes, clinics, laboratories, and extra-mural clinics.

PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN DENTAL HYGIENE

	Hours
A. General Requirements	38
Area I	15
1. ENG 101, 102	10
2. DRS 228	5
Area III	20
1. PSY 101	5
2. SOC 201	5
3. HIS 251 or 252	5
4. POS 113	5
Area V	3
1. PE 117 or 211	2
2. One activity course	1
B. Courses in the Major Field	56
1. DH 111, 112, 113, 118, 120, 123, 124, 211, 212, 213, 214, 216, 219, 220, 221, 223, 224 227	58
C. Courses in Related Fields	20
1. BIO 210	5
2. CHE 201	5
3. ZOO 208, 209	10
D. Regents' and Exit Examinations	0
TOTAL	116

PROGRAM FOR THE DEGREE BACHELOR OF SCIENCE IN DENTAL HYGIENE EDUCATION

	Hours
A. General Requirements	71
Area I	25
1. ENG 101, 102, 201	15
2. DRS 228 and PHI 200 or 201	10
Area II	10
1. MAT 101, 220	10
Area III	30
1. PSY 101	5
2. SOC 201	5
3. HIS 251 or 252 and 114, 115	15
4. POS 113	5
Area V	6
1. PE 103 or 108 and 117 or 211	3
2. Three activity courses	3
B. Courses in the Major Field	76
1. DH 111, 112, 113, 114, 115, 118, 120, 124, 211, 212, 213, 214, 215, 216, 217, 219, 220, 221, 223, 224, 227	56
2. DH 401, 402, 403, 404	20
C. Courses in Related Fields	55
1. BIO 101, 102, 210	15
2. CHE 122, 201	10
3. PSY 301, 305	10
4. EDN 200, 335	10
5. ZOO 208, 209	10
D. Regents' and Exit Examinations	0
TOTAL	202

OFFERINGS

DH 111—Clinical Dental Hygiene I (2-6-4)
Fall.

This course is designed to introduce the student to the dental hygiene profession. The

subject matter includes fundamental knowledge of clinical procedures and techniques of removing deposits from the teeth. Clinical procedures are introduced on the the manikins and the student is required to practice these techniques until proficiency is achieved.

DH 112-113—Clinical Dental Hygiene II and III (2-6-4) (1-9-4)

Winter and Spring respectively. Prerequisite: DH 111.

Students perform oral prophylactic techniques on patients in the clinic under supervision. The subject matter includes procedures which the hygienist will use in the performance of clinical duties. The student must apply acquired knowledge in all clinical situations.

DH 118—Periodontics (2-0-2)

Spring.

This course is designed to give the student a basic understanding of periodontics. Emphasis is placed on periodontal health and disease in relation to the health of the total patient. Periodontal knowledge is applied in clinical situations.

DH 120—Dental Roentgenology (2-3-3)

Winter.

This course will include a series of lectures, demonstrations, and directed experience in the fundamentals of dental roentgenology. Intraoral techniques for the taking and processing of radiographs are taught and laboratory time will be devoted to demonstration and directed experience. Clinical time in subsequent quarters will afford the application of the principles of clinical situations.

DH 123—Dental Anatomy and Oral Histology (3-2-3)

Fall.

This course is designed to familiarize the dental hygiene student with the nomenclature, morphology, eruption sequence of the primary and secondary dentition and oral histology and embryology of the oral cavity.

DH 124—Dental Materials (2-3-3)

Spring.

This course is designed to provide a general understanding of the chemical, physical and mechanical properties of dental materials. The indications and limitations of materials will be stressed as well as proper manipulation of those materials used by dental hygienists.

DH 211-212-213—Clinical Dental Hygiene IV, V, VI (1-12-5) (1-15-6) (1-15-6)

Fall, Winter and Spring respectively. Prerequisites: DH 111, 112, 113.

These courses are a continuation of the preceding clinical courses. Emphasis centers on improved proficiency in all areas of a working clinic. Lecture time is devoted mainly to the discussion of experiences encountered in clinical situations. Pertinent material related to the dental hygiene profession is included in these courses.

DH 214—Anesthesiology and Pharmacology (2-0-2)

Winter.

This course is a study of drugs and anesthetics with special consideration given to those used in dentistry. It is designed to acquaint the student with the principles of drug action in the human patient.

DH 216—Dental Public Health (3-0-3)

Winter.

This course introduces the student to the various aspects of public health with reference to the dental needs of the community. Special emphasis is given to terminology, epidemiology, and interpretation of data related to community dental health programs. Directed field experience is a course requirement.

DH 219—Total Patient Care (0-3-1)

Fall.

This laboratory experience acquaints the student with the subject and practice of the various dental specialties in relation to the patient's total health. This course is also designed to acquaint the student with the expanding dental services provided by dental auxiliary personnel.

DH 220—Directed Field Experience (0-4-1)

Winter.

The student is provided with a holistic approach to dentistry by externing with private dental practitioners and public and military agencies.

DH 221—Scopes of Dental Hygiene Practice (1-0-1)

Spring.

This course is designed to acquaint students with various scopes of dental hygiene practice, the jurisprudence governing the practice of dental hygiene, and the structure and function of professional associations.

DH 223—Applied Nutrition (2-0-2)
Fall.
This course presents the aspects of nutrition as applied to the practice of dentistry. Students are instructed in diet history and dietetic counseling.

DH 224—Head and Neck Anatomy (2-0-2)
Fall.
This course is designed to familiarize the dental hygiene student with gross anatomical relationships in the head and neck. Special emphasis is given to the anatomy of the oral cavity and its clinical application.

DH 225—Preventive Dental Health Education I (2-0-2)
Fall.
The principles of prevention of oral diseases are presented. Many facets of prevention are included with emphasis on the utilization of oral physiotherapy aids and on education and motivation of patients in proper oral hygiene. Knowledge from this course and preceding clinical courses will be utilized in a paper to be presented to the class and clinical faculty. Clinical time in subsequent quarters will afford the application of these principles to clinical situations.

DH 226—Preventive Dental Health Education II (1-0-1)
Winter.
This course is a continuation of the preventive dentistry concepts. The student is familiarized with the practical application of modern methods of dental health education. Course content includes developing teaching materials for dental health education, demonstrations, and presentation of materials. Directed field experience will be provided to allow the student practical application of techniques learned in the classroom.

DH 227—General and Oral Pathology (3-0-3)
Fall.
This course is designed to familiarize dental hygiene students with the principles of general pathology in relation to the common diseases of oral regions. Emphasis is placed on clinical manifestations and the importance of early recognition of abnormal conditions.

DH 401—Practicum in Dental Hygiene Education I (3-6-5)
Offered on demand. Prerequisite: Admission into the Dental Hygiene Education Program.
This course is an introductory field experience in the college dental hygiene clinic, community agencies, and patient care facilities with emphasis on observation, individual and small group teaching, and teacher aide work. The first professional course for majors in Dental Hygiene Education.

DH 402—Practicum in Dental Hygiene Education II (3-6-5)
Offered on demand. Prerequisite: DH 401.
This course is a continuation of Dental Hygiene 401. Problems common to beginning dental hygiene teachers, practices and procedures designed to accomplish program objectives, establishment and organization of content, methods of evaluation and supervision in the dental hygiene clinic are included.

DH 403—Practicum in Dental Hygiene Education III (3-6-5)
Offered on demand. Prerequisite: DH 402.
This course is an advanced field experience designed to assist the student in the development of learning activities, teaching procedures, and the presentation of materials pertinent to dental hygiene education. The student will develop and teach selected units in the basic dental hygiene sequence at community agencies, and patient care facilities.

DH 404—Directed and Individual Study (3-6-5)
Offered on demand. Corequisite: DH 403, Prerequisite: DH 403.
This course is a directed individual study in an area of major interest with emphasis relevant to dental hygiene and future career objectives. Scientific research and evaluation methods will be reviewed and used in the student's individual project.

Health Information Management

Faculty

Evans, Patricia, Acting Program Director

The field of health information management is a rapidly growing profession. The program

curriculum is designed to train selected individuals in acquiring technical skills and knowledge to become competent health information management professionals. The student is prepared for clerical and supervisory responsibilities in the health record department of any hospital, clinic, nursing home and any other health related institution. Employment opportunities are also available in industrial organizations, governmental agencies, and medical libraries. Participating in medical research and offering consultation services to health facilities are other employment avenues. Managing legal questions, participating in numerous activities to assess the quality of patient care, and assisting in the design and maintenance of medical information systems make this a most challenging career in the health care industry.

Program policies as stated in the catalog will become effective at the time a student is admitted into the Health Information Management Program. Students are required to have insurance liability coverage. Details are available from program director.

Progression Requirements

1. Formal acceptance into the HIM program is contingent upon the applicant's eligibility for enrollment in MAT 101.
2. A grade of "C" or better must be earned in all HIM courses. A student will not be permitted to register for an HIM course if a "C" has not been earned on a prerequisite course.
3. A student may repeat only one HIM course only one time.
4. A grade of "C" or better must be earned in all natural science courses (ZOO 208, 209 and CHE 201). Only one natural science course may be repeated only one time.
5. Maintenance of a quarterly GPA of 2.0 or better is expected. A student who falls below this required quarterly GPA during any quarter will be placed on "Conditional Status" for one quarter, relative to the HIM program.
6. A student may be granted "Conditional Status" for not more than two consecutive quarters and not more than three quarters total. If a student's quarterly GPA is not raised by the end of the second consecutive "Conditional Status" quarter or at the end of the third non-consecutive "Conditional Status" quarter, the student will be dismissed from the HIM program (dismissal from the college is treated in the Academic Regulations section of this Catalog).
7. An overall GPA of 2.0 is required for graduation.

PROGRAM FOR THE DEGREE ASSOCIATE IN SCIENCE IN HEALTH INFORMATION MANAGEMENT

	Hours
A. General Requirements	33
1. ENG 101, 102	10
2. CHE 201	5
3. HIS 251 or 252	5
4. POS 113	5
5. PE 117 and one activity course or three activity courses	3
6. Approved elective	5
B. Courses Appropriate to the Field	15
1. ZOO 208, 209	10
2. CS 115	5
C. Courses in Major Field	58
1. HIM 100, 101, 202, 203, 204	21
2. HIM 111, 112, 213, 214	18
3. HIM 110, 220, 230, 240	11
4. HIM 215, 225	8
D. Regents' and Exit Examinations	0
TOTAL	106

OFFERINGS

HIM 100—Health Occupations (2-0-2)

Fall. Prerequisite: none.

An introductory study of the present system of health care on local, state, national, and international levels. The changing pattern of health manpower needs and the emerging trends of the health care delivery system are explored. Orientation to health facilities with emphasis placed on the organization of a hospital and its functional units.

HIM 101—Medical Record Science I (5-2-5)

Spring. Prerequisite: HIM 100.

A general orientation to the historical background of medicine, development of health care field, the medical record field as a profession with discussion of the organization and history of the American Medical Record Association. Included are definitions of and standards for medical records, their content, format and evaluation with reference to accrediting

agencies. Emphasis is also placed on number and filing systems, retention, storage methods, and admitting procedures.

HIM 110—Directed Experience I (0-8-2)

Spring. Prerequisite: HIM 100 Pre- or corequisite: HIM 101.

Directed experience in various affiliated health care facilities will apply the theory of medical record practice by performing medical record skills. Specific assignments in the medical record department will include record and loose document filing as well as record controlling.

HIM 111—Medical Terminology I (5-0-5)

Fall. Prerequisite: None.

Introduction to medical terminology. This course will cover the study of the language of medicine including word construction, word elements, definitions, and abbreviations related to all areas of medical science, hospital services, and health related fields. Open to non-HIM students by permission.

HIM 112—Medical Terminology II (5-1-5)

Winter. Prerequisite: HIM 111. Prerequisite or corequisite: ZOO 208.

An advanced course in Medical terminology. This course will cover diseases, operations, laboratory tests, and various aspects of medicine used in each of the human body systems. Open to non-HIM students by permission.

HIM 203—Medical Record Science II (4-2-5)

Fall. Prerequisites: HIM 101 and 110. Pre- or corequisite: 200, 215.

Concentration on defining the purposes of classification systems and nomenclatures; describing the various classification systems used; coding and retrieving diagnoses and procedures by ICD-9-CM utilizing the principles of CPT, and other coding systems and nomenclatures; describing and using various indexes and registers. The importance of utilizing the appropriate codes for retrieval of information for use in quality assurance and utilization review procedures will also be discussed.

HIM 204—Medical Record Science IV (4-2-5)

Spring. Prerequisites: HIM 203 and 230.

A survey of medical audit methodology; utilization review; implementing Problem-Oriented Medical Record in health care institutions; principles in managing medical libraries and cancer registry programs; and in providing consulting services to health care delivery systems. An overview of special record keeping systems: long term care facilities, ambulatory care centers, psychiatric institutions, private physicians' offices, and health care centers, in industrial sites.

HIM 205—Medical Record Science III (4-1-4)

Winter. Prerequisites: HIM 203 and 110.

Principles of record analysis: completion of medical records by all medical and other associated professionals. A study of the hospital statistics and their respective reports; detee functions; reviewing the purposes and requirements of various national and state regulatory agencies; computing various hospital statistics and preparing their respective reports; describing procedures and discussing the sources and use of health information system; inservice education theory.

HIM 213—Medical Transcription (1-4-3)

Spring. Prerequisites: HIM 112, Typing proficiency.

Medical transcribing, editing medical reports, and managing transcription pools are emphasized. The clinical laboratory time will be spent typing from cassette tapes, through which medical reports (discharge summaries, operative reports, history and physical examination, consultation reports) have been dictated by physicians.

HIM 214—Medical Science (4-2-5)

Fall. Prerequisites: HIM 112, ZOO 209.

Medical Science for the health information management student serves as an essential connecting link between the basic sciences of anatomy and physiology of the human body and the medical and surgical repair of a diseased host. Dysfunctions of normal physiology and the processes that bring about these disruptions will be considered. The manner in which these disruptions manifest themselves as signs, symptoms, physical findings, and laboratory results will be discussed.

HIM 215—Legal Aspects of Medical Records (3-0-3)

Winter. Prerequisite: HIM 202.

An introduction to the study of the principles of law (federal, state, local) and their application to the health field with particular emphasis in medical record practice; the importance of

the medical record as a legal document; the effect of confidential communication laws on the release of information from the medical record; legal authorizations, consents.

HIM 220—Directed Experience II (0-8-2)

Fall. Prerequisites: HIM 101 and 110. Pre- or corequisite: HIM 203.

Supervised learning experience at various health care centers. Specific assignments in medical record departments are record assembly and analysis, assisting in medical staff and administrative committee functions, and medical transcription.

HIM 225—Organization and Administration I (4-2-5)

Spring. Prerequisites: HIM 203, 205.

A survey of the management principles related to office management in a medical record department. Planning the work of an office with discussion and application to systems, procedures, methods, and organizational charts. Attention is given to planning and organizing office space, equipment, and supplies. Also included in this course are units in communication skills and techniques; form design and control; salary administration; and personnel selection, development, and supervision.

HIM 230—Directed Experience III (0-12-3)

Winter. Prerequisites: HIM 203 and 220. Pre- or corequisite: HIM 205.

This practicum emphasizes practical experience in coding final diagnoses and operative procedures, preparation of source documents, practicing indexing methods, statistics, and correspondence/release of information procedures.

HIM 240—Directed Experience IV (0-16-4)

Spring. Prerequisites: HIM 205, 230, and 215.

Emphasis is placed on the managerial and technical concerns of the student practitioners. Each student completes an on-site visit to another health care facility near their clinical site, preferably a more non-traditional setting for medical record practitioners, during this course. Additionally, each student completes a practicum project that will be of benefit to both the student and the clinical site. (The directed experience supervisors suggest suitable projects and a determination as to the student's assignment is based on this list.) This directed clinical experience applies to the synthesis of the program of studies and prepares the student for transition to the graduate role.

Health Science

Faculty

Parsons, Dennis, Program Director
Clark, Ed, Health Science

The overall goal of this program is to make available an educational opportunity for persons interested in entering a health field and an academic program for experienced health professionals who wish to further their career opportunities. More specifically, the objectives of the program are:

1. To teach individuals that behavioral change can occur through education;
2. To foster health, health promotion, and disease prevention;
3. To prepare competent, knowledgeable health educators; and,
4. To provide health practitioners the opportunity to gain expertise in the health related areas of education, management, correctional science, public policy, or computer science.

The emphasis of the curriculum is to view "health" as different from "illness" and to teach new students and practicing health professionals of this difference. The curriculum will permit the student to earn a baccalaureate degree that reflects expertise in health science while focusing on an applied health related area. Upon graduation, these health professionals will implement the concepts they have learned and direct the efforts of the American public in the promotion, enhancement, and maintenance of health and in the prevention of health problems.

Progression Requirements

1. Students must complete 90 hours of appropriate coursework before professional courses may be taken.
2. Students must earn a minimum GPA of 2.0, with not more than one science repeat, to remain in the progam.
3. To earn "advanced standing" status, all

previous coursework will be subject to faculty evaluation.

ROGRAM FOR THE DEGREE OF ACHELOR OF HEALTH SCIENCE

	Hours
General Requirements	96
Area I	20
1. ENG 101, 102, 201	15
2. One course selected from: ART 200, 271, 272, 273; MUS 200; ENG 222; PHI 200	5
Area II	20
1. CHE 121, 122	10
2. MAT 101 and 103 or 220	10
Area III	20
1. HIS 114, 115	10
2. POS 113	5
3. One course selected from: ANT 201, ECO 201, SOC 201	5
Area IV	30
1. HS 100	5
2. HIS 150 and 251 or 252	10
3. PSY 101	5
4. ZOO 208, 209	10
Area V	6
1. PE 117 and 103 or 108	3
2. Three activity courses	3
Electives	10
Courses in the Major Field	55
1. BIO 310	5
2. HS 150, 200, 201, 220, 230	25
3. HS 300, 350, 400, 450, 451	25
Courses in the Emphasis Area	30
Area I—Health Education	30
1. EDU 335, PSY 301	10
2. HE 300, 370 ,410, 420	20
Area II—Computer Science	30
1. MAT 103 or 220	5
2. CS 231, 306, 331, 332, 431	25
Area III—Correctional Science	30
1. CJ 100, 102, 210, 303, 409	25
2. CJ elective	5
Area IV—Education	30
1. EDN 460	5
2. EDU 335, 340, 451, 455	20
3. PSY 301	5
Area V—Management	30
1. BA 211, 360	10
2. PSY 320	5
3. Any one of the following three:	
a. Decision-Making	
1. BA 212	5
2. BA 320, 330 or BA 425 and ECO 305	10
b. Human Relations Any of the following three courses: BA 375, 462; PSY 321, 322	15
c. Public Policy	
1. POS 305 and 306 or 307	10
2. POS 401 or 403	5
E. Regents' and Exit Examinations	0
TOTAL	191

OFFERINGS

Health Science Offerings

HS 100—Introduction to Health Science (5-0-5)

Exploration of the science of health. Based on the health (versus illness) model, this course will emphasize the enhancement of health as part of natural human development. The multifaceted health care delivery system will be introduced, and some ethical, philosophical, and socio-cultural issues of health care will be discussed.

HS 110—Medical Terminology (2-0-2)

A study of the language of medicine: word construction; definition; abbreviations and symbols; and use of terms related to all areas of medical science, hospital service, and the medical specialties. Open to non-majors.

HS 150—Health Care Delivery Systems (5-0-5)

Existing modalities for treatment, habilitation, and rehabilitation will be identified. Their integration into primary, secondary, and tertiary treatment complexes will be discussed. Cost of illness and health care delivery will be addressed.

HS 200-201—Health and Human Development (5-0-5)

The natural enfoldment of the human will be presented emphasizing critical stages, and their respective developments and accomplishments—all from the perspective of enhancing health with concomitant avoiding of illness.

HS 220—Nutrition (5-0-5)

Prerequisite: BIO and CHE sequences.

Nutrition, as a major component of lifestyle, is related to enhancement of health and con-

tribution to illness. Basic concepts of nutrition and various "diets" are studied.

HS 230—Epidemiology (5-0-5)

The application of ecology to health and illness. An investigation into the various factors and conditions that determine the occurrence and distribution of health, disease, and death among groups of individuals.

HS 300—Health Problems in a Changing Society (5-0-5)

Prerequisites: HIS 150; HS 230; BIO 310.

A review of health status as a function of societal change. For example, the effects on health of sewage disposal, speed-limits, cold-war, technology, and such will be examined.

HS 350—Health in the Community (5-0-5)

Prerequisites: HS 230; HS 300.

The environment, communicable infections, health education, available treatment centers, and socio-political apparatus for change are integrated and viewed as dynamics of the community which may enhance health and prevent illness and injury.

HS 400—Seminar in Health Science (5-0-5)

Prerequisite: HS 350.

Health Science concepts are analyzed and synthesized. Emerging and emergent issues and trends are investigated.

HS 450-451—Health Science Practicum (1-8-5)

Prerequisite: HS 400.

A two-quarter sequence offering the Health Science degree candidate opportunity to be an active participant in the student's area of interest. The practicum will provide the basis for the required senior thesis.

Health Education Offerings

HE 300—Methods and Media in Health Education (5-0-5)

The basic principles of education, integrated with various teaching methods and media appropriate to a health care setting, will be explored. The methods and media will be designed for the biopsychosocial requirements of the client.

HE 370—Health Promotion Through Physical Activity (5-0-5)

Prerequisite: Permission of instructor.

A study of the effects of physical activity on health enhancement and maintenance. Physical assessment methods, equipment and prescription regimes will be included. A holistic approach to health will be the basic theme of this course.

HE 410—Health Education in the Community (5-0-5)

Prerequisites: HS 300 and HS 350.

A course designed to examine the process of assessing, planning, implementing and evaluating the health education needs of members of and groups within a community. The theories of group process, motivation and human development will be used extensively.

HE 420—Health Education in Rehabilitation (5-0-5)

Prerequisite: HE 410.

This course is designed to provide the student with the information necessary to aid patients in achieving their highest rehabilitation potential. The main objective is to aid the client in coping and complying with the prescribed regimen.

Medical Technology

Faculty

Hardegree, Lester Jr., Program Director
Miller, James, Medical Director

Medical technology is a career in clinical laboratory science. Medical technologists perform and/or supervise the testing of blood, urine, spinal fluid and other body specimens. Applying the knowledge of chemistry, mathematics and biology, the medical technologist uses both manual and automated techniques to provide diagnostic data to the physicians.

The B.S. in Medical Technology curriculum is a 4 year program. During the first two years, the students must complete core curriculum courses in chemistry, biology, mathematics, humanities and social science. The professional medical technology courses are offered during the Junior and Senior years (7 quarters). The junior year is primarily composed of professional medical technology courses in all of the major laboratory areas (urinalysis, hematology, clinical chemistry, blood banking, microbiology, serology) taught via lecture and laboratory on campus. As part of the senior year curriculum the clinical practicum will be

provided at the clinical laboratories of Candler General Hospital, the South Atlantic Red Cross Blood Center, and St. Joseph's Hospital, all located in Savannah. Upon completion of the program, graduates will be eligible to take the examination of the Board of Registry for Medical Technologists of the American Society of Clinical Pathologists and/or the Clinical Laboratory Scientist examination of the National Certification Agency for Medical Laboratory Personnel.

Insurance and Forms

Students accepted into the program will be required to submit a complete Armstrong State College Human Services Student Health Appraisal form and to obtain a transcript evaluation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Prior to enrollment in the clinical practicum the student will be required to provide evidence of liability insurance and medical coverage.

Progression Requirements

1. The student must earn a "C" or better in each Medical Technology course.
2. A student may repeat a single MT course only one time and at the next offering provided space is available.
3. A student who must repeat a single MT course more than once or more than one MT course will be dismissed from the program with no option for readmission.
4. The student must also maintain an overall adjusted Grade Point Average of 2.0 or better. A student who falls below the 2.0 GPS will be placed on "Suspension" for one quarter. If the student's GPA is not raised by the end of the next quarter, then the student will be dismissed from the program.
5. The student must complete the Professional coursework within three (3) consecutive years from the date of their initial admission to the Medical Technology Program.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

	Hours
A. General Requirements	96
Area I	20
1. ENG 101, 102, 201	15
2 One course selected from: ART 200, 271, 272, 273, ENG 222, MUS 200; PHI 200	5
Area II	20
1. BIO 101 or 111 and 102 or 112	10
2. MAT 101, 220	10
Area III	20
1. HIS 114, 115	10
2. POS 113	5
3. One course selected from: ANT 201, ECO 201, PSY 101, SOC 201	5
Area IV	30
1. CHE 128, 129, 281	15
2. Three courses selected from: CS 110, 115; ZOO 208, 209; PHY 212, 213 or science course approved by program director	15
Area V	6
1. PE 103 or 108 and 117 or 211	3
2. Three activity courses	3
State Requirement	5
HIS 251 or 252	5
B. Courses in the Major Field	103
1. Upper Division Sequences	25
BIO 351, 353	10
CHE 341, 342, 380	15
2. Professional Courses	78
MT 310, 320, 330, 340, 350, 360, 370, 380, 390, 420, 430, 440 450, 460, 470, 480, 490	78
C. Regents' and Exit Examinations	0
TOTAL	204

OFFERINGS

MT 310—Urinalysis and Body Fluids (3-4-5)

Prerequisite: Admission to the MT program or permission of program director.

A qualitative and quantitative study of the chemical and microscopic constituents of urine and other body fluids and the clinical significance of the test results.

MT 320—Clinical Microbiology I (4-6-7)

Prerequisite: BIO 351 or permission of program director.

A study of the relationship of bacteria to disease. Major emphasis is placed on the isolation and identification of bacteria responsible for human diseases. Also included is sensitivity testing and mycobacteriology.

MT 330—Clinical Hematology I (4-6-7)

Prerequisite: Admission to the MT program or permission of program director.

A qualitative and quantitative study of the formed elements of the blood. To include the complete blood count and specialized test procedures. This course will also include the basic principles of hemostasis and blood coagulation.

MT 340—Clinical Immunohematology I (3-6-6)

Prerequisite: Admission to the MT program or permission of program director.

A study of basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components. To include the selection and processing of donors, cross matching procedures, an antibody identification.

MT 350—Clinical Chemistry I (4-6-7)

Prerequisite: CHE 380, 342 and MT 360 or permission of program director.

A comprehensive study of the physiological principles, methodology and clinical significance of the biochemicals and elements found in the body fluids.

MT 360—Clinical Instrumentation (3-4-5)

Prerequisite: Admission to the MT program or permission of program director.

A basic study of the principles and operation of laboratory instrumentation. Emphasis will be placed on the individual components and the inter-relationship of the components. Electronics will be included.

MT 370—Clinical Serology (2-2-3)

Prerequisite: Admission to the MT program or permission of program director.

A study of the principles and procedures used in the isolation, identification and quantitation of diagnostically significant antigens and antibodies.

MT 380—Clinical Parasitology (2-2-3)

Prerequisite: Admission to the MT program or permission of program director.

A study of the pathogenesis, life cycle, and laboratory identification of human parasites.

MT 390—Clinical Mycology (2-2-3)

Prerequisite: Admission to the MT program or permission of program director.

A study of the pathogenesis and laboratory isolation and identification of fungi that can invade humans.

MT 400—Directed Study (1-5)-0-(1-5)

Offered on demand with approval of program director.

A study of selected Medical Technology topics designed to meet the needs of the student. Credit will depend upon the work to be done. May be repeated up to 10 quarter hours.

MT 420—Clinical Microbiology II (2-0-2)

Prerequisite: Concurrent enrollment in clinical practicum and completion of MT 320.

Advanced level lecture presentations of special topics in microbiology.

MT 430—Clinical Hematology II (2-0-2)

Prerequisite: Concurrent enrollment in clinical practicum and completion of MT 330.

Advanced level lecture presentations of special topics in hematology.

MT 440—Clinical Immunohematology II (2-0-2)

Prerequisite: Concurrent enrollment in clinical practicum and completion of MT 340.

Advanced level lecture presentations of special topics in immunohematology.

MT 450—Clinical Chemistry II (2-0-2)

Prerequisite: Concurrent enrollment in clinical practicum and completion of MT 350.

Advanced level lecture presentations of special topics in clinical chemistry.

MT 460—Clinical Practicum I (0-28-7)

Prerequisite: Completion of respective MT courses.

A structured clinical laboratory experience where the students integrate theory and application under supervision in the various areas of medical technology. This will provide time and facilities to allow the student to develop speed, confidence, and organization and to analyze and solve technical problems.

MT 470—Clinical Practicum II (0-28-7)

Continuation of MT 460.

MT 480—Clinical Practicum III (0-32-8)

Continuation of MT 470.

MT 490—Management and Education (2-0-2)

Prerequisite: Completion of MT 460 and MT 470.

Basic concepts of laboratory management, leadership and education.

Radiologic Technologies

Faculty

Tilson, Elwin, Program Director
Gibson, Sharyn

Radiologic Technology is a comprehensive term that is applied to the science of administering ionizing radiation and other forms of energy to provide technical information and assistance to the physician in the diagnosis and treatment of diseases and injuries. This field offers four specific career specialities: radiography, nuclear medicine technology, radiation therapy technology and diagnostic medical sonography. At present, the Radiologic Technologies Program offers an Associate Degree in the specialty area of radiography.

Program Goals

The specific goals of the Program are as follows:

1. To educate superlative clinicians. In addition to mastering basic skills necessary to perform routine radiographic examinations, the Program's graduate will possess skills necessary to perform non-routine and special radiographic procedures.
2. To expose the student to an in-depth analysis of the art and science of radiography. The student will receive not only an indepth exposure to radiography but also to related natural and social sciences.
3. To give the students a well rounded liberal arts education. In addition to the professional component of the curriculum, the student receives a well rounded liberal arts exposure so that the student will be able to effectively integrate into the society.

Insurance, Forms, Transportation

Student radiographers participate in Clinical Education experiences at local hospitals and other community agencies and are responsible for providing their own transportation. The Program requires students to submit a completed health history form and evidence of liability insurance prior to participating in Clinical Education. Specific information regarding these requirements will be distributed to candidates admitted to the Program.

Progression Requirements

For progression through the Program, the following must be maintained:

1. Science courses (ZOO 208, 209, 215, CHE 201, CS 115, PHY 201, 202)
   a. A passing grade in each course ("D" or better).
   b. A "C" or better in at least four of these courses.
   c. A student may repeat only one of these courses.
   d. Students who must repeat more than one science course because of grade of "F" will be suspended from the Program.
2. Radiography courses
   a. A "C" or better in each Radiography course.
   b. A student may repeat only one Radiography course.
   c. Students who must repeat more than one Radiography course will be dismissed from the Program.
3. The maintenance of an overall grade point average of 2.0 is required throughout the program. When a student falls below the adjusted GPA of 2.0, the student will be placed on probation, suspended, or dismissed after a review by the faculty of the Program.

Attendance and Advanced Standing

A student must matriculate each quarter, including Summer Quarter, to remain in the Program. If, because of illness or other extenuating circumstances, a student needs to be away from school for a quarter, the student must seek formal approval from the Program Director for such an absence. If such approval is not sought and granted, the student will be dropped from active status and must reapply for admission before continuing in the Program.

The Radiologic Technologies Program is committed to a philosophy of educational flexibility to meet the needs of the profession. Individuals who are graduates of Certificate (hospital) Programs and individuals working in the profession who are not certified by the American Registry of Radiologic Technologists may receive advanced standing by a process of exemption examinations and CLEP examinations. Please see the Program for details.

PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN RADIOLOGIC TECHNOLOGIES

	Hours
A. General Requirements	38
Area I	10
1. ENG 101, 102	10
Area II	5
MAT 101	5
Area III	10
HIS 251 or 252	5
POS 113	5
Area IV	5
CHE 201	5
Area V	3
Any three physical education credits	3
Approved elective	5
B. Courses in the Major Field	64
RAD 103, 104, 111, 112 113, 114, 121, 122, 123	32
RAD 200, 204, 205, 221, 222, 223, 224, 225	32
C. Courses in Related Fields	30
CS 115	5
PHY 201, 202	8
ZOO 208, 209, 215	15
D. Regents' and Exit Examinations	0
TOTAL	130

Radiologic Technologies Offerings

RAD 103—Radiation Protection (2-0-2)

Prerequisites: Formal admission to the Program.

This course is designed to give the radiography student an understanding of radiation protection methods and the effects of radiation exposure. Topics included will be measurement and protection methods for various types of radiation as well as a discussion of somatic and genetic effects. Emphasis will be given to NCRP recommendations.

RAD 104—Principles of Radiographic Exposure (4-3-5)

Prerequisites: Formal admission to the Program.

Factors influencing radiologic quality and conditions influencing exposures are presented. Attenuating devices, beam restricting devices, and accessory equipment are demonstrated. Technic charts and formation are vehicles for the application of the radiologic process.

RAD 111—Radiographic Procedures I (4-3-5)

Prerequisites: Formal admission to the Program.

This course introduces the student to the basic theory and principles of radiographic procedures of the extremities, shoulder girdle, and pelvic girdle. Emphasis is placed on osteo anatomy, spatial relationships, patient positioning, equipment manipulation, and quality evaluation of the radiographic study. Basic medical terminology will be included.

RAD 112—Radiographic Procedures II (4-3-5)

Prerequisites: Formal admission to the Program and RAD 111.

The theory and principles of radiographic examinations of the chest and abdomen are studied. Emphasis is placed on radiographic examinations of the visceral organs requiring the use of contrast media, spatial relationships, patient positioning, equipment manipulation, and quality evaluation of the study.

RAD 113—Radiographic Procedures III (4-3-5)

Prerequisites: Formal admission to the Program and RAD 112.

The theory and principles of radiographic examinations of the spines, facial bones and cranium are studied. Emphasis is placed on the osteo anatomy, spatial relationships, patient positioning, equipment manipulation, and quality evaluation of the study.

RAD 114—Radiographic Procedures IV (3.5-1.5-4)

Prerequisites: Formal admission to the Program and RAD 113.

The theory and principles of non-routine radiographic examinations are studied. Topics included are studies of the neurovascular system, central nervous system, heart, breast, reproductive organs, and additional non-routine examinations involving contrast media or specialized instrumentation. Emphasis will be given to preparation of special procedures suites, sterile technique, and utilization of specialized equipment.

RAD 121—Clinical Educaiton I (0-16-2)

Prerequisites: Formal admission to the Program, permission of the instructor, and CPR certified.

Orientation to patient care, introduction to areas involving the field of radiology, and

orientation to the clinical setting are presented. This is a supervised clinical practice in performing radiographic procedures, radiation protection, patient care, equipment orientation, radiographic technique, darkroom procedures, and film quality evaluation. Competency evaluation of routine radiographic examinations is included.

RAD 122—Clinical Education II (0-16-2)
Prerequisites: RAD 121 and permission of the instructor.

This is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of routine radiographic examinations.

RAD 123—Clinical Education III (0-16-2)
Prerequisites: RAD 122 and permission of the instructor. RAD 104 and RAD 113 must be taken as a corequisite or prerequisite.

This course is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of routine radiographic examinations.

RAD 200—Nursing Procedures (1.5-1.5-2)
Prerequisite: Formal admission to the Program.

The student is introduced to basic nursing techniques as they relate to the patient in the Radiology Department. Topics included are psychological needs of patients, meeting physical requirements of patients, transporting and moving of patients, monitoring of patients, suctioning, catheterization, administration of injections, I.V. maintenance, and dealing with emergency medical situations.

RAD 204—Advanced Radiographic Exposure (3-0-3)
Prerequisite: RAD 104.

This course is a continuation of RAD 104. This is a more in-depth look at the factors influencing radiographic quality and conditions influencing exposures. Emphasis is given to specialized equipment and techniques, computer based imaging systems, and emerging modalities.

RAD 205—Quality Assurance (2-2-3)
Prerequisite: Permission of instructor.

This course is a study of equipment testing and instrumentation, record keeping systems, and statistical analysis of equipment and supply usage. Emphasis will be given to testing procedures, QA program implementation, and federal government guidelines.

RAD 221—Clinical Education IV (0-24-3)
Prerequisites: RAD 123 and permission of the instructor.

This course is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of radiographic examinations.

RAD 222—Clinical Education V (0-24-3)
Prerequisites: RAD 221 and permission of instructor.

This course is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of radiographic examinations.

RAD 223—Clinical Education VI (0-24-3)
Prerequisites: RAD 222 and permission of the instructor.

This course is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of radiographic examinations.

RAD 224—Clinical Education VII (0-24-3)
Prerequisites: RAD 223 and permission of instructor.

This course is a supervised clinical practice in performing radiographic procedures with an emphasis on the competency evaluation of radiographic examinations.

RAD 225—Clinical Education VIII (6-32-12)
Prerequisites: Successful completion of all required Radiologic Technologies courses or permission of instructor.

This course is a supervised clinical practice in performing radiographic procedures and an exposure to various specialized areas within the profession of Radiologic Technology. Emphasis is placed on the competency evaluation of radiographic examinations and demonstration of basic skills in various specialized areas within the profession. Course includes seminar in which pertinent professional topics and the transition from student to graduate technologist will be discussed.

Respiratory Therapy

Faculty

Bowers, Ross, Department Head
Di Benedetto, Robert, Medical Director
Mazzoli, Andrew, Director of Clinical Education
Smith, William
Taft, Arthur

For the two-year (seven consecutive quarters) program leading to the Associate in Science degree in Respiratory Therapy, the student must complete a curriculum of 61 quarter hours in academic courses and 60 quarter hours within the major. The A.S. degree from an accredited Respiratory Therapy program qualifies the graduate for entry into the Registry credentialing system. The Registry is the highest professional credential available in the field of respiratory therapy. The credentialing process is a two-step nationally administered examination. Step 1 is a comprehensive written exam to be taken shortly after graduation. The graduate who passes this exam will earn the entry level credential C.R.T.T. and will be eligible to enter the registry credentialing system. The registry exam consists of a written and a clinical simulation component. The candidate who passes both parts of the registry exam will earn the credential Registered Respiratory Therapist. It will take the candidate at least one year following graduation to complete the Registry. During the year following graduation the candidate must work at least 20 hours per week in a respiratory therapy department which has a Medical Director.

Progression Requirements

1. A grade of "C" or better must be earned in each core curriculum (academic) course. No more than one repeat grade per course will be acceptable.
2. A grade of "C" or better must be earned in each Respiratory Therapy course. No more than one repeat grade per course will be acceptable.
3. A Respiratoyr Therapy course in which the student makes a "D" or "F" must be repeated at its next offering. Because of curriculum structure, each Respiratory Therapy course is offered only one time per year. The student who must repeat a Respiratory Therapy course will be out of the program for three quarters until the course can be repeated.
4. If a student fails to make a "C" or better in any course that is repeated, this will be grounds for dismissal from the Respiratory Therapy Program. A student who has been dismissed from the program for any reason will not be eligible for readmission.
5. An overall GPA of 2.0 or better is required to graduate from the Respiratory Therapy Program.

Attendance Regulations

A student must matriculate each successive quarter to remain in the program. If the student needs to be away from school for a quarter the student must seek formal approval from the Program Director for such an absence. If approval is not sought and granted, the student will be dropped from active status and must reapply for admission to the Respiratory Therapy major before continuing in the program. The student who applies for readmission must meet the existing requirements of the program.

Advanced Standing

The Respiratory Therapy Program has a comprehensive advanced standing policy. The program utilizes transfer credit, credit by examination, and credit for developmental experiences as a mechanism for granting advanced standing. A maximum of 25 credit hours may be clepped in the A.S. degree program. The program maintains a philosophy of educational flexibility to meet the needs of the profession.

PROGRAM FOR THE DEGREE ASSOCIATE IN SCIENCE IN RESPIRATORY THERAPY

	Hours
A. General Requirements	28
1. ENG 101, 102	10
2. MAT 101	5
4. PE 103 or 108, 117	3
B. Pre-Professional Courses	33
1. ZOO 208, 209, 211	13
2. BIO 210	5
3. CHE 201, 202	10
4. One course selected from: ANT 201, SOC 201, or PSY 101	5

C. Courses in Respiratory Therapy 60
1. RT 101, 102, 103, 104, 105, 106, and 107; HIS 110 34
2. RT 201, 202, 203, 204, 205, 206, and 207 27
D. Regents' and Exit Examinations 0
TOTAL 122

OFFERINGS

RT 101—Introduction to Respiratory Therapy (3-4-5)

Fall. Prerequisite: Direct admission into the Respiratory Therapy Program.

An introductory course in the evolution of the respiratory therapy profession and the modern respiratory therapy department. The student will: study physical principles related to gases; manufacture and storage of medical gases; gas administration equipment; oxygen delivery systems; environmental control systems; humidifiers; nebulizers; oxygen controlling devices and oxygen analyzers.

RT 102—Pulmonary Pharmacology (5-0-5)

Winter. Prerequisite: Permission of the instructor.

This course is designed to give the student an in-depth look at drugs that directly affect the pulmonary system. During this course the student will study: routes of drug administration, pharmacodynamics, drug interactions, mucokinesis and mucokinetic drugs, bronchospasm and bronchodilators, cholinergic drugs, cromolyn sodium, corticosteroids, antibiotics, antitiberculan drugs, respiratory stimulants and depressants, anesthetics and neuromuscular blockers.

RT 103—Basic RT Skills I (3-10-5)

Winters. Prerequisites: CHE 201 and RT 101.

This course is designed to develop clinical competence in administering basic respiratory therapy. The student will study: CPR, infection control, cleaning and sterilization of RT equipment, aerosol therapy, aerosol generators, post-op pulmonary complications, incentive spirometry, IPPB and basic patient monitoring skills. The student will be able to demonstrate clinical competence in each therapeutic modality.

RT 104—Basic RT Skills II (3-10-5)

Spring. Prerequisites: CHE 201, ZOO 208, RT 103.

This course is designed to develop additional clinical competence in administering basic respiratory therapy. The student will study: chest physiotherapy/bronchial drainage; suctioning technique, pulmonary rehabilitation, artificial airways, airway management, intubation technique, weaning techniques and management of post extubation complications. The student should be able to demonstrate clinical competence in each therapeutic modality.

RT 105—Diagnostic Techniques I (4-2-5)

Spring. Prerequisites: CHE 201, ZOO 208, RT 103.

This course is designed to introduce the student to techniques used to diagnose pulmonary and cardiovascular disease. The student will study: basic spirometry, tests designed to measure TLC, tests designed to diagnose early small airway disease, tests designed to diagnose diffusion abnormalities, ventilation/perfusion scans, angiograms, bronchoscopy and blood gases.

RT 106—Pulmonary Medicine/Pathology (5-0-5)

Summer. Prerequisites: ZOO 209, RT 105 and/or permission of the instructor.

This course is designed to provide the student with the current state of the art in diagnosing and managing pulmonary abnormalities. The student will study the: etiology, epidemiology, pathophysiology, clinical manifestations, diagnosis, complications, management and prognosis of pulmonary diseases. The student will observe slides and handle pathologic specimens during this course. The course will primarily be taught by leading physicians in the community.

RT 107—Diagnostic Techniques II (0-16-2)

Summer. Prerequisites: ZOO 209 and RT 105.

This course is designed to be the clinical component of RT 105. The student should be able to demonstrate clinical competence in the following respiratory skills: arterial stick, interpretation and management of blood gas abnormalities, interpretation of pulmonary function tests, bedside pulmonary function screening, preparation of a patient for bronchoscopy and cleaning/maintenance of a bronchoscope.

RT 201—Critical Care Equipment (3-10-5)

Fall. Prerequisites: BIO 210 and RT 107 and/or permission of instructor.

This course is designed to provide the student with an in-depth look at the principles, assembly, operation and modification of critical care equipment. The student will study: the functional analysis of mechanical ventilators, assembly and modification of ventilator circuits, arterial lines, swan ganz catheters, transducers, oscilloscopes, spirometers, pneumotachometers and alarm systems. The student should be able to demonstrate lab expertise with this equipment by the end of the course.

RT 202—Patient Assessment (3-10-5)

Fall. Prerequisites: BIO 210 and RT 107 and/or permission of the instructor.

This course is designed to teach the student how to do a pulmonary physical exam on a patient. The student will study how to take a patient history, ausculatation, palpation and percussion of the chest wall. The student will also study lab exams and nonpulmonary assessment of the patient. The student should be able to demonstrate clinical competence in physical assessment by the end of this course.

RT 203—Adult Critical Care I (4-2-5)

Winter. Prerequisites: ZOO 211 and RT 201, 202.

This course is designed to focus on the care of the patient in the intensive care unit. The student will study patient monitoring, hemodynamic monitoring, ventilator management, and clinical management of diseases and conditions commonly seen in ICU. The student should be able to identify clinical signs of respiratory distress and respond appropriately. The student should be able to demonstrate clinical competence in the ICU by the end of this course and RT 204.

RT 204—Adult Critical Care II (0-16-2)

Winter. Prerequisites: ZOO 211 and RT 201, 202.

This course is designed to be the clinical component of RT 201 and 203. The student should be able to demonstrate clinical competence in all aspects of intensive respiratory care by the end of this course.

RT 205—Management of the Respiratory Care Department (2-0-2)

Spring. Prerequisites: CHE 202, RT 203, 204 or by permission of the instructor.

This course is designed to introduce the student to basic management responsibilities within the respiratory care department. The student will study: JCAH guidelines, quality control/audit, staffing/scheduling problems, evaluation systems, communicaton/interviewing skills, budget preparations, and how to do time and motion studies. The student should be able to demonstrate competence in handling clinical simulation problems by the end of this course.

RT 206—Pediatrics and Neonatal Care I (4-2-5)

Spring. Prerequisites: CHE 202, RT 203, 204.

This course is designed to focus on pulmonary problems commonly seen in the pediatric patient and the high risk newborn. The student will study: development of the fetus, anatomic differences between the fetus and newborn infant, problems associated with delivery, evaluation of the fetus in utero and following delivery, pulmonary diseases associated with the newborn infant and their management. The student will also study equipment commonly used in the care of the pediatric and neonatal patient.

RT 207—Pediatrics and Neonatal Care II (0-24-3)

Spring. Prerequisites: CHE 202, RT 203, 204.

This course is designed to be the clinical compoent of RT 206. The student should be able to demonstrate clinical competence in all aspects of pediatric and neonatal care by the end of this course.

FACULTY ROSTERS

Permanent, Full-Time Members of the Teaching Corps or Administrative Staff

(This list includes only individuals who enjoy faculty voting privileges. The number in parentheses after the names represents the initial year of employment at Armstrong State College.)

Adams, Joseph V. (1970)
Dean of Arts and Sciences
Professor of Psychology
Ph.D., University of Alabama
M.A., Baylor University
B.A., Tennessee Temple College

Aenchbacher, Louis E., III (1980)
Assistant Professor of Physical Education
M.Ed., University of Georgia
B.S., Armstrong State College

Agyekum, Stephen K. (1979)
Associate Professor Elementary Education.
Ed.D., University of Georgia
M.A., University of Georgia
A.B., Johnson C. Smith University

Anderson, Donald D. (1966)
Dean for Community Services
Associate Professor of Education
Ed.D., Auburn University
M.A., George Peabody College
B.S., Georgia Southern College

Arens, Olavi (1974)
Associate Professor of History
Ph.D., Columbia Unviersity
M.A., Columbia University
A B., Harvard University

Babits, Lawrence E. (1981)
Assistant Professor of History and Archaeology
Ph.D., Brown University
M.A., University of Maryland
B.A., University of Maryland

Ball, Ardella P. (1968)
Assistant Professor of Library Science
M.S., Atlanta University
A.B., Fisk University

Barnard, Jane T. (1980)
Assistant Professor of Mathematics and Computer Science
M.S., Georgia Southern College
B.S., Georgia Southern College

Battiste, Bettye A. (1980)
Assistant Professor of Elementary Education
Ed.D., University of Florida
M.Ed., State University of New York
B.S., Savannah State College

Bell, Dorothy G. (1969)
Assistant Professor of Nursing
M.N., Emory University
B.S.N.Ed., University of Georgia

Beumer, Ronald J. (1975)
Associate Professor of Biology
Ph.D., University of Arkansas
B.S., University of Dayton

Blalock, Virginia R. (1979)
Associate Professor of Elementary Education
S.Ed., Florida State University
M.A., Columbia University
B.A., Savannah State College

Bowers, Ross L., III (1979)
Head of Respiratory Therapy Department
Assistant Professor of Respiratory Therapy
B.S., Georgia State College
MHS, Armstrong State College

Brewer, John G. (1968)
Professor of Chemistry
Ph.D., University of Georgia
M.S., University of Georgia
B.S., University of Georgia

Brockmeier, Kristina C. (1981)
Instructor of Library Science
M.S., Florida State University
M.A., Vanderbilt University
B.A., University of Virginia

Brooks, S. Kent (1976)
Professor of English
Ph.D., George Washington University
M.Ph., George Washington University
M.A., University of Texas
B.A., University of Texas

Brower, Moonyean S. (1967)
Associate Professor of Biology
M.A., University of Massachusetts
B.S., University of Massachusetts

Brown, George E. (1972)
Assistant Professor of Criminal Justice
M.S.S.W., Atlanta University
B.S.W., Armstrong State College
A.B., Armstrong State College

Brown, Hugh R. (1968)
Professor of English
Ph.D., University of South Carolina
M.A.T., St. Michael's College
B.S., Xavier of Ohio

Buck, Joseph A., III (1968)
Vice President for Student Affairs and Development
Ed.D., University of Georgia
M.S., Florida State University
B.A., Auburn University

Buck, Marilyn M. (1974)
Head of Baccalaureate Nursing Department
Assistant Professor of Nursing
Ed.D., University of South Carolina
M.S.N., Medical College of Georgia
B.S.N., Boston University

Burgess, Clifford V. (1979)
Professor of Education
Ed.D., Auburn University
M.A., George Peabody
A.B., Mercer University

Burnett, Robert A. (1978)
President
Professor of History
Ph.D., University of North Carolina
M.A., University of North Carolina
B.A., Wofford College

Burroughs, Nelda F. (1981)
Instructor of Library Science
M.A., University of South Carolina
B.A., North Carolina Central University

Butler, Frank A. (1985)
Vice President and Dean of Faculty
Ph.D., Rensselaer Polytechnic
B.S.E.S., University of Miami

Campbell, Michael (1984)
D.A., Ball State University
M.A., Trenton State College
B.S., Lebanon Valley College

Cochran, John H., Jr. (1979)
Associate Professor of Elementary Education
Ed.D., University of Georgia
M.A., Atlanta University
B.A., Paine College

Comaskey, Bernard J. (1966)
Assistant Professor of History
M.A., New York University
B.A., Fordham College

Cottrell, Ellen (1976)
Assistant Professor of English
M.Ed., Georgia Southern College
B.A., Agnes Scott College

Coursey, Teresa (1971)
Assistant Professor of Dental Hygiene
B.S., West Liberty State College

Coyle, William E. (1957)
Professor of Political Science
Ph.D., Florida State University
M.A., Georgetown University
A.B., Emory University

Cyphert, Daniel S. (1981)
Assistant Professor of Mathematics and Computer Science
Ph.D., Vanderbilt University
M.S., Vanderbilt University
B.S., Case Institute of Technology

Dandy, Evelyn B. (1974)
Head of Development Studies Department
Associate Professor of Reading
Ph.D., University of South Carolina
M.Ed., Temple University
B.S., Millersville State College

David, Marilee (1984)
D.M., Indiana University
M.M., University of Illinois
B.M., University of Illinois

Douglass, W. Keith (1970)
Professor of Psychology
Ph.D., Syracuse University
M.A., Syracuse University
B.A., Franklin & Marshall College

Duncan, John D. (1965)
Professor of History
Ph.D., Emory University
M.A., University of South Carolina
B.S., College of Charleston

Dutko, Kathleen (1978)
Assistant Professor of Nursing
M.A., New York University
B.S.N., Niagara University

Ealy, Steven D. (1982)
Assistant Professor of Political Science
Ph.D., University of Georgia
M.A., Claremont Graduate School
B.A., Furman University

Easterling, William L. (1968)
Professor of French and Spanish
Ph.D., University of Georgia
M.A., Middlebury College
B.S., Western Carolina
Diplome, Sorbonne

Edenfield, Suzanne (1983)
Assistant Professor of Dental Hygiene
M.H.S., Armstrong State College
B.S., Armstrong State College

Evans, Patricia A. (1983)
Instructor of Health Information Management
B.S., Florida International University

Findels, John (1968)
Assistant Professor of Mathematics
M.S., University of Illinois
B.S., University of Illinois

Fleming, Caroline (1977)
Instructor of Dental Hygiene
B.S., Armstrong State College
A.S., Midland Technical College

Ford, Elizabeth J. (1976)
Assistant Professor of Physical Education
M.Ed., Georgia Southern College
B.S., Winthrop College

Fox, Lynne (1984)
Instructor of Library Science
M.L.S., University of Michigan
B.A., University of Colorado

Galloway, Herbert F. (1982)
Associate Professor of Secondary Education
Ed.D., University of Georgia
M.Ed., University of Georgia
M.M., Florida State University
B.M., Florida State University

Geoffroy, Cynthia D. (1978)
Assistant Professor of Mathematics
M.S., University of South Carolina
B.A., Westfield State College

Gibson, Sharyn (1983)
Instructor of Radiologic Technologies
B.S., St. Joseph's College
A.A., Armstrong State College

Gill, Gloria (1979)
Instructor of Physical Education
M.A., University of Alabama
B.S., Middle Tennessee State University

Gottfried, Bradley M. (1984)
Head of Biology Department
Associate Professor of Biology
Ph.D., Miami University
M.S., Western Illinois University
B.A., West Chester State College

Gross, Jimmie (1967)
Ph.D., University of Georgia
M.A., Auburn University
B.D.Southern Theological
B.A., Baylor University

Guillou, Laurent J., Jr. (1970)
Associate Professor of Biology
Ph.D., Louisiana State University
M.S., Louisiana State University
B.S., Louisiana State University

Hansen, John R. (1967)
Professor of Mathematics
Ed.D., University of Georgia
M.Ed., University of Georgia
B.S., Troy State College

Harbin, Mickie S. (1981)
Assistant Professor of Mathematics and Computer Science
Ph.D., University of Texas (Arlington)
M.A., University of Texas (Arlington)
B.A., University of Texas (Arlington)

Hardegree, Lester E., Jr. (1982)
Director of Medical Technology Program
Assistant Professor of Medical Technology
M.Ed., Georgia State University
B.S., Medical College of Georgia
B.S., University of Georgia

Harris, Henry E. (1966)
Head of Chemistry and Physics Department
Professor of Chemistry
Ph.D., Georgia Institute of Technology
B.S., Georgia Institute of Technology

Harris, Karl D. (1976)
Assistant Profesor of English
M.A., University of Tennessee
B.A., Carson-Newman College

Harris, Robert L. (1981)
Associate Professor of Music
D.M.A., University of Washington
M.M., University of the Pacific
B.M., University of the Pacific

Hepner, Freddie S. (1980)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
B.S.N., Armstrong State College

Hough, Bonny E. (1982)
Assistant Professor of Music
Ph.D., Washington University
M.M., Washington University
B.A., Pomona College

Hudson, Anne L. (1971)
Professor of Mathematics and Computer Science
Ph.D., Tulane University
M.S., Tulane University
B.A., Hollins College

Hunnicutt, George S. (1969)
Registrar
M.S., East Tennessee State University
B.S., East Tennessee State University

Jaynes, Michael L. (1976)
Assistant Professor of Physics
M.S., University of North Carolina
B.A., Appalachian State University

Jenkins, Marvin V. (1968)
Assistant Professor of English
M.A., University of Georgia
B.S., University of Georgia

Johanning, Gary (1981)
Assistant Professor of Chemistry
Ph.D., University of Missouri
B.S., University of Missouri

Jones, Gerald A. (1984)
Assistant Professor of Physics
M.S., Mississippi State University
B.A.E., Mississippi State University

Jones, James Land (1968)
Professor of English and Philosophy
Ph.D., Tulane University
M.A., Vanderbilt University
B.A., University of Tulsa

Keller, Carola (1970)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
B.S.N., University of Virginia

Kilhefner, Dale Z. (1973)
Professor of Mathematics and Computer Science
Ph.D., Pennsylvania State University
M.S., Purdue University
M.Ed., Washington State University
B.S., Elizabethtown College

Killorin, Joseph I. (1947)
Professor of Literature and Philosophy
Ph.D., Columbia University
M.A., Columbia University
B.A., St. John's College

Knorr, Virginia W. (1973)
Assistant Professor of Physical Education
M.S., University of Tennessee (Chattanooga)
B.S., University of Tennessee (Chattanooga)

Lane, Joseph M., Jr. (1970)
Professor of Psychology
Ph.D., University of Georgia
M.S., University of Georgia
B.S., University of Georgia

Lanier, Osmos, Jr. (1965)
Professor of History
Ph.D., University of Georgia
M.A., Auburn University
B.A., LaGrange College

Lariscy, Michael L. (1976)
Assistant Professor of Physical Education
M.Ed., Georgia Southern College
B.S., Armstrong State College

Lawson, Cornelia V. (1979)
Professor of Education
Ed.D., University of Arkansas
M.A., University of Southern Mississippi
B.S., Florida State University

Lee, Byung Moo (1981)
Assistant Professor of Library Science
M.L.S., University of Wisconsin
B.A., University of Wisconsin
B.A., Yon Sei University

Levett, Nettie M. (1975)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
B.S.N., Florida A & M University

Magnus, Robert E. (1972)
Director of Criminal Justice Graduate Program
Professor of Criminal Justice
Ed.D., Mississippi State University
M.Ed., Mississippi State University
B.G.E., University of Omaha

Martin, Grace B. (1980)
Head of Psychology Department
Assistant Professor of Psychology
Ph.D., Florida State University
M.S., Florida State University
B.A., Armstrong State College

Martin, William B. (1980)
Instructor of English
M.A., Duke University
B.A., Armstrong State College

Massey, Carole M. (1976)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
B.S.N., Medical College of Georgia

Mazzoli, Andrew J. (1981)
Assistant Professor of Respiratory Therapy
M.H.S., Medical University of South Carolina
B.S., State University of New York Medical Center

McCarthy, John C., Jr. (1962)
Professor of Political Science
Ph.D., University of Georgia
M.B.A., University of Georgia
B.B.A., University of Miami

McClanahan, Billie F. (1978)
Assistant Profesor of English
M.A., University of Georgia
B.A., Armstrong State College

McCracken, Thomas C. (1974)
Assistant Professor of Library Science
M.A.L.S., University of Denver
B.S., Florida State University

Megathlin, William L. (1971)
Head of Government Department
Professor of Criminal Justice
Ed.D., University of Georgia
M.Ed., University of Georgia
B.A., Presbyterian College

Meredith, James R. (1983)
Assistant Professor of Military Science
M.S., University of Southern California
B.S., United States Military Academy

Miller, Mary (1970)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
B.S.N., Medical College of Virginia

Munson, Richard E. (1972)
Professor of Mathematics and Computer Science
Ph.D., Rutgers University
M.S., Rutgers Unviersity
B.A., Houghton College

Murphy, Dennis D. (1981)
Associate Professor of Criminal Justice
J.D., University of Florida
Ph.D., University of Florida
M.Ed., University of Florida
B.A., University of Florida

Nash, Charles R. (1979)
Dean of Education
Professor of Education
Ed.D., Mississippi State University
M.Ed., University of Southern Mississippi
B.S.Ed., Jackson State College

Newberry, S. Lloyd (1968)
Professor of Education
Ed.D., University of Georgia
M.Ed., University of Georgia
B.S.Ed., University of Georgia

Newman, John F. (1968)
Professor of Political Science
Ph.D., University of Florida
M.A., Georgetown University
B.A., University of Maryland

Noble, David (1969)
Associate Professor of German and Latin
Ph.D., McGill University
A.M., Boston University
A.B., Boston University
Diploma Litterarum Latinarum, Pontificia Universitas Gregoriana

Nordquist, Richard F. (1980)
Instructor of English
M.A., University of Leicester
B.A., State University of New York

Norsworthy, Gary (19800
Dean, Coastal Georgia Center
Ph.D., Florida State University
M.A., Florida State University
B.A., Florida State University

Norwich, Vicki H. (1980)
Assistant Professor of Mathematics and Computer Science
M.Ed., Armstrong State College
B.S., Middle Tennessee State University

Palefsky, Elliot H. (1971)
Assistant Professor of Psychology
Ed.S., Georgia Southern College
Ed.M., Temple University
B.S., University of Georgia

Parsons, Dennis E. (1982)
Director of Health Science Program
Professor of Health Science
Ed.D., University of Georgia
M.A., Union College
B.S., Union College

Patchak, Jane A. (1974)
Assistant Professor of Anthropology
M.A., Western Michigan University
B.A., Central Michigan University

Patterson, Robert L. (1966)
Professor of History
Ph.D., Vanderbilt University
M.A., University of Kentucky
B.A., Kentucky Wesleyan

Pingel, Allen L. (1969)
Professor Biology
Ph.D., University of South Carolina
M.A.T., University of North Carolina
B.A., University of North Carolina

Pruden, George B., Jr., (1982)
Assistant Professor of History
Ph.D., American University
M.A., American University
M.Ed., University of South Carolina
B.A., Wake Forest

Raymond, Richard (1983)
Associate Professor of English
Ph.D., Miami University
M.A., University of Wyoming
B.A., University of Wyoming

Repella, James F. (1976)
Dean of Health Professions
Professor of Nursing
Ph.D., University of Pittsburgh
M.S.N., Unviersity of Pennsylvania
B.S.Ed., Temple University

Rhee, Steve Y. (1974)
Associate Professor of Political Science
Ph.D., University of Missouri
M.A., University of Oregon
B.A., University of Oregon

Richters, Stephen P. (1982)
Assistant Professor of Mathematics
Ph.D., Brown University
M.S., Brown University
B.S., Vassar College

Robbins, Paul (1966)
Professor of Chemistry
Ph.D., Georgia Institute of Technology
B.S., University of Pennsylvania

Robinson, Aurelia D. (1979)
Associate Professor of Education
D.Ed., University of Oklahoma
M.A., Atlanta University
A.B., Spelman College

Roth, Lorie (1983)
Assistant Professor of English
Ph.D., Kent State University
M.A., Kent State University
B.A., Kent State University

Roesel, Rosalyn L. (1984)
Associate Professor of Nursing
Ph.D., North Texas State University
M.S.N., Medical College of Georgia
B.S.N., Medical College of Georgia

Russell, Carol (1977)
Instructor of Dental Hygiene
B.S., Armstrong State College
A.S., Armstrong State Colege

Satterfield, Nell B. (1969)
Associate Professor of Sociology
Ed.D., University of Georgia
M.S.S.W., University of Tennessee
A.B., University of North Carolina

Schmidt, John C. (1979)
Assistant Professor of Art
M.F.A., Ohio University
B.F.A., Carnegie-Mellon University

Schmitz, Catherine (1982)
Assistant Professor of Nursing
M.S.N., Rush University
B.S.N., Duke University

Shipley, Charles (1972)
Professor of Mathematics and Computer Science
Ph.D., University of Nebraska
M.S., Georgia Institute of Technology
M.A., University of North Dakota
B.A., University of North Dakota

Silcox, Elaine (1972)
Assistant Professor of Nursing
M.S.N., Medical College of Georgia
M.Ed., University of Florida
B.S.N., University of Florida

Simon, Emma T. (1974)
Head of Dental Hygiene Department
Assistant Professor of Dental Hygiene
M.H.E., Medical College of Georgia
B.S., Armstrong State College

Sims, Roy J. (1955)
Head of Physical Education Department
Professor of Physical Education
Ed.D., Louisiana State University
M.S., University of Tennessee
B.S., David Lipscomb College

Smith, Carolyn G. (1977)
Assistant Professor of Mathematics
M.Ed., Armstrong State College
B.S., Armstrong State College

Smith, William J., Jr. (1982)
Instructor of Respiratory Therapy
B.S., Medical University of South Carolina

Stegall, John L. (1981)
Vice President for Business and Finance
M.B.A., University of Georgia
B.S., Indiana State University

Stephens, Jacquelyn W. (1979)
Professor of Elementary Education
Ed.D., University of Oklahoma
M.S., Illinois State University
B.S., Savannah State College

Stevens, Linda B. (1981)
Assistant Professor of Special Educaiton
Ed D., University of Florida
M.S., University of Southern Mississippi
B.S., University of Southern Mississippi

Stokes, William W. (1967)
Head of Secondary Education Department
Professor of Education
Ed.D., University of Florida
M.Ed., University of Florida
B.A., University of Flordia

Stone, Janet D. (1975)
Associate Professor of History
Ph.D., Emory University
M.A., Purdue University
A.B., Randolph-Macon Woman's College

Stratton, Cedric (1965)
Professor of Chemistry
Ph.D., University of London
B.Sc., Nottingham University

Strozier, Robert I. (1965)
Head of Language, Literature, and Dramatic Arts Department
Professor of English
Ph.D., Florida State University
M.A., Florida State University
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